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Vol. CIII.

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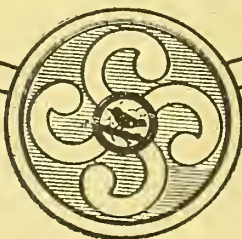
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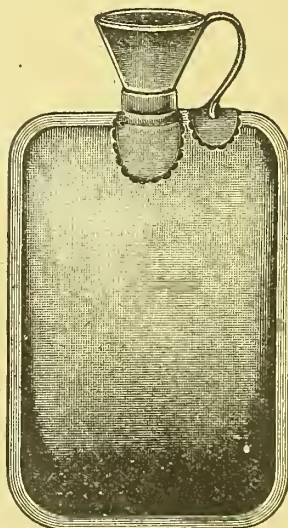
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INDEX TO ADVERTISERS

Addis, R., & Son (Toothbrushes) .. 10	Celmo, Ld. (Celmo and Celmetz) .. xvi	Galloway, P. H., Ld. (Lysol, &c.) .. x
Anglo - American Oil Co., Ld. (Petroleum Jellies) .. xix	Cephus, Ld. (Headache Remedy) .. xvi	Gardiner & Co. (The Scotch House), Ld. (Overalls) .. xviii
Anglo-French Drug Co., Ld. xii	"Christian Herald," The .. 41	Garfield Tea Co. xvi
Association of Manfg. Chemists, Ld. Col. Supp.	Christy, T., & Co. (Dr. Page-Barker's Scurf Lotion, Py-shan Points Tea) 24-42	George, Ernest J. (Valuer, &c.) Col. Supp. Glaxo (Food) .. 352
Ayrton, Saunders & Co., Ld. (Wholesale Druggists) .. 15	Coleman & Co., Ld. (Wincarnis) 31	Goodall, Backhouse & Co. (Malt and Oil) .. 32
Barker, R., & Son, Ld. (Infants' Preservative) .. 30	Connell, A., & Co. (Essences, &c.) .. 18	Gower, J. (Books) .. Col. Supp.
Bates, F. W. (Toilet Preps.) .. 28	Cooper Laboratory (Tablets, &c.) .. viii	Graesser-Monsanto Chemical Works, Ld. (Chemicals, &c.) .. Cover
Battin, H., & Co., Ld. (Areca Nuts) vii	Cooper, Lionel (Salvitae) .. Cover	Grimble & Co. (Raspberry Vinegar) 352
Bengue, Dr., & Co. xvi	Cooper, Son & Co., Ld. (Cachets) .. 32	Grout & Co., Ld. (Norvic Crêpe Bandage) .. 36
Berdoo & Fish (Valuers, &c.) Col. Supp.	Corry & Co., Ld. (Wasp Nest Destroyer) .. 40	Harker, C. R., Stagg & Morgan, Ld. (Peldo) .. 26
Berk, F. W., & Co., Ld. (Chemicals, &c.) .. ii	Coty (England), Ld. (Face Powders) 40	Harkness, Beaumont & Co. ("Vapoform" Disinfectant) .. iv
Berton, Arthur, Ld. (Surgical Goods) 37	Cow, P. B., & Co., Ld. (Hot-Water Bottles) .. 34	Harrison, T., & Co. (Ess. Oils) .. 18
Betts & Co., Ld. (Collapsible Tubes) 44	Cox, Arthur H., & Co., Ld. (Tonsillitis and Sore Throat Tablets) .. Cover	Heinz, Carl Aug. (Bottles) .. 42
Bidwells, Ld. (Tooth Brushes, &c.) .. 28	Craingold & Co. (Dispensing Scales) 36	Himrod Manfg. Co. (Asthma Cure) .. xiv
Billowzone, Ld. xvii	Crookes Laboratories (Colossal Zinc Cream) .. xi	Holophane, Ld. 41
Blythe, W., & Co., Ld. (Chemicals) .. vii	Cupal, Ld. (Cough Cure) .. 7	Honeywill Bros., Ld. (Alcohol) .. 40
Bond, J. (London), Ld. (Marking Ink) 44	Curtis, H. E., & Son, Ld. (Kaylene, &c.) .. 42	Hopkin & Williams, Ld. (Chemical Reagents) .. iv
Bonvet Manufacturing Co. (Dog Medicines) .. 40	De, S. N. (Drugs) .. 42	Horlick's Malted Milk Co. 9
Brierley, J. Col. Supp.	Dearborn (1923), Ld. (Toilet Specialties) .. 22	Howards & Sons, Ld. (Aspirin Tablets) Cover
Bristow, T. F., & Co., Ld. (Toilet Preps.) .. 25	Dederich, W., Ld. (Ichthyol) .. xiv	Icilm Co. (Icilm Cream) .. 21
British Drug Houses, Ld. (Kalosan) .. 48	Denoual, Jules, & Co. (Pastilles, &c.) x	Jackel et Cie (of Paris), Ld. (Hair Cream) .. 22
British Monomarks, Ld. (Monomarks) 3	Denver Chemical Manfg. Co. (Anti-phlogistine) .. xii	Johnson & Sons (Mfg. Chts.), Ld. (Chemicals) .. iii
Britton, Malcolm & Waymark, Ld. (Hot Water Bottles) .. 38	Dimol Laboratories, Ld. (Dimol) .. xi	Johnston & Adams (Slipperine) .. 44
Brook, Parker & Co., Ld. (Dutch Drops) .. 32	Duncan, Flockhart & Co. (Anæsthetics) ii	Josephs, Philip, & Sons, Ld. Col. Supp.
Brooks & Warburton (American Drug Supply Co.), Ld. (Cold Cream) .. 24	Edwards & Gritten (Lysol, &c.) .. xvii	Kent, G. B., & Sons, Ld. (Brushes) 28
Brunner, Mond & Co., Ld. (Alkalies) vi	Edwards, Wm., & Sons (Hot Water Bottles, &c.) .. 39-42	Kerfoot, T., & Co., Ld. (Distol Ottos) 17
Burrough, J., Ld. (Absolute Alcohol) 352	Essences & Synthetics, Ld. (Ess. Oils) 16	King, J. C., Ld. (Duplicate Books, &c.) .. xx
Burroughs Wellcome & Co. (Veterinary Tuberculin) .. 47	Evan-Williams Co., Ld. (Henna Shampoos) .. 28	La Industrial Resinera Ruth (Synthetic Camphor) .. vi
Bush, W. J., & Co., Ld. (Acetanilide, &c.) .. Cover	Farmer, F., & Co. (Rat Poison) .. xxiii	Lang, Jules, & Son (Glassware) .. 12
Butler & Crispe (Hot Water Bottles) 4	Fassett & Johnson, Ld. (Phyllosan) .. ix	Langley-Smith & Co. (White Turpentine, &c.) .. xxi
Cadbury Bros. (Cocoa) .. Cover	Field, C. W., Ld. (Saponine Powder, &c.) .. vii	Laporte, B., Ld. (Chemicals) .. ii
Cartwright, W. B., Ld. (Elfrida Toilet Preps.) .. 23	Fink, F., & Co. (Gums) .. 42	
Cellophane Co. (Wrapping Material) xiv	Flemons, J., & Sons (English Herbs) iv	

[Continued overleaf.]

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INDEX—cont.

Lennon, Ld. (South African Agencies) viii	Peeling & Van Neck, Ld. (Cameras, &c.) xxii	Stern, H. C. (Toilet Paper) 39
Le Personne, L., & Co. (Bottles) .. 12	Piver, L. T. (Perfumery) 16	Sterns, Ld. (Oils, Petroleum, &c.) .. xxi
Levermore, A., & Co., Ld. (Precipitated Chalk) 42	Potter & Clarke, Ld. (Packed Goods) 45	Stevenson & Howell, Ld. (Floral Oils, &c.) 1
Lewis, H. K., & Co., Ld. (Books) .. 33	Prichard & Constance (Whol.), Ld. (Amami Shampoos) 22	Stevenson, Hugh, & Sons, Ld. (Boxes) xx
Licenses and General Insurance Co., Ld. xxii	Pure Russian Liquid Paraffin Co., Ld. xviii	Sturge, J. & E., Ld. (Precipitated Chalk) iv
Livermore & Knight, Ld. (Revolving Light Shade, &c.) xx	Quelch & Gambles, Ld. (Toilet Preps.) 24	Surgical Hosiery Co., Ld. 36
Lorimer-Marshall, Ld. (Packed Goods) 31	Radiosan, Ld. xiv	Sutley & Silverlock, Ld. (Bottle Wrappers, &c.) xxiii
Lysol, Ld. (Lysol) 14	Red Band Chemical Co. (Magnesia) xvii	Tatcho-Tone Co. 42
Macandrews & Forbes, Ld. (Apollo Liquorice) viii	Reliance Rubber Co. (Feeding Bottle Teat) 38	Taylor, Edward, Ld. (Porous Plasters) 38
Macfarlan, J. F., & Co. (Chloroform and Ether) Cover	Richards, G. H., Ld. (XL ALL Specialities) 352	Taylor, Ernest, Ld. (Boxes) xx
MacSweeney, E. (Tinori Corn Cure) .. 36	Rippin, A. J., Ld. (Drugs) iv	Taylor, F. H., & Sons, Ld. (Measures) 12
Matthews, D., & Son Col. Supp.	Roberts & Co. (Tonic) xvi	Thompson & Capper, Ld. (Quinphos) xv
Matthews & Wilson, Ld. (Tablets) .. vi	Robinson & Sons, Ld. (Boxes) 352	Tiffins' Dentabath, Ld. 27
Maw, S., Son & Sons, Ld. 11	Rose, J. L., Ld. (Pyrogallie Acid) .. 42	Tipper, B. C., & Son (Veterinary) .. 40
Medical Supply Assocn., Ld. (Medical Electric Apparatus) 35	Rudduck & Co. (Shopfittings) .. Col. Supp.	Tolkien, C., & Co. (Malt Extract, &c.) 31
Meggeson & Co., Ld. (Tablets) i	Sacker's Hygienic Comb & Toilet Supply Co. ("Sannakleen" Comb) 27	United Glass Bottle Manufacturers, Ld. (Medical Bottles) 15
Millar, A., & Co., Ld. (Orange Wine) 31	Sangers (Ointments, &c.) 2-xi	Virol, Ld. (Virol and Virolax) 8
Mills, A. J., & Co., Ld. (Honey) .. 32	Scholl Manfg. Co., Ld. 36	Viscose Development Co., Ld. (Bottle Cappings) xxiv
Milner's Chemical Co. (Milner Cleaner) 42	Scott, A., Ld. (Shaving Stands, &c.) 10	Wagner, R. V. (Bottle Caps) 12
Morton, T. S. (Razor Blades) 27	Scruton, Oscar, & Co. (Nurse Harvey's Mixture) 32	Ward & Goldstone, Ld. (Electric Torches, &c.) 41
Munro, M'Laren & Sutherland (Brushes) 28	Scurr, C. A. (Optical Tuition) xxii	Watney, J., & Co., Ld. (Grain Spirit) xxi
Murray, O., & Co., Ld. (Cod Liver Oil) 30	Seymour, J. (Peppermint Oil) 26	Waverley Comb Co., Ld. 29
National Cash Register Co., Ld. xxi	Shadeine Co. (Hair Dyes) 42	West Ham Municipal College 42
Newball & Mason (Extract of Herbs, &c.) 30	Shawyer & Co. (Developing, &c.) .. xxii	Westminster College of Pharmacy.. xxii
Newbery, F., & Sons, Ld. (Malt Extract) 30	Sherley, A. F., & Co., Ld. (Dog Medicines) xxiii	Whelpton, G., & Son, Ld. 42
Norwood Technical Institute xxii	Showcard Specialists, The xxiii	Whiffen & Sons, Ld. (Fine Chemicals, &c.) v
Ofome Co., Ld. (Ofome Cleanser) .. 43	Slack, A. Bernard Col. Supp.	White, R. F., & Co., Ld. (Verbena Bath Soap) 26
Oldfield, Pattinson & Co. (Pharm. Preps.) 5	Smith & Co. (Flycatchers) 42	Wilcox, Jozeau & Co. (Foreign Medicines, &c.) 352
Orridge & Co. (Valuers, &c.) Col. Supp.	Smith, T. & H., Ld. (Chemicals) ... vii	Wilkinson, J. F. (Labels, &c.) 6
Osborne, Garrett & Co., Ld. (Puffs, &c.) 20	Solazzi (Liquorice) vi	Wireless Trader, The xviii
P.A.T.A. xiv	Solport Bros., Ld. (Poudre Compacte) 28	Wyleys, Ld. (Neuracetin Pellets) Cover
Parke, Davis & Co. (Mentholated Bronchial Lozenges) xiii	Sorbo Rubber Sponge Products, Ld. 27	
	Spatula Publishing Co. (Books) 31	
	Speer, W. R., & Son (Toothbrushes) 28	
	Spurway et Cie, Ld. (Bay Rum) 18	
	Squire & Sons, Ld. (Books, &c.) 40	
	Standard Glass & Hardware Co., Ld. (Glass Bottles, &c.) 40	
	Stedman's, Dr., Teething Powders.. 42	

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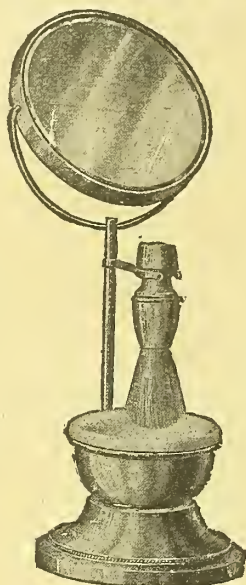


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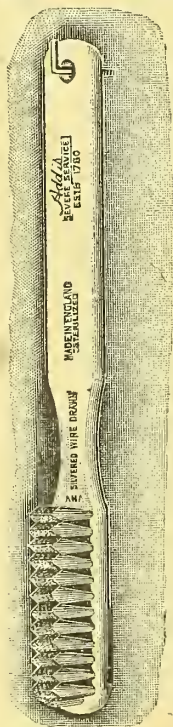
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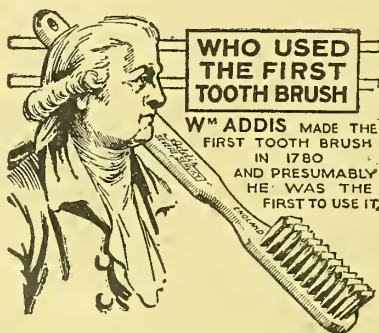
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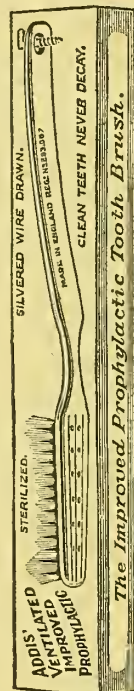
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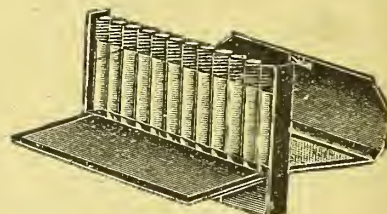
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DESCRIPTION IN STOCK
AND TO ORDER.



Telegrams:
"Assorted, 'Phone,
London."
'Phone:
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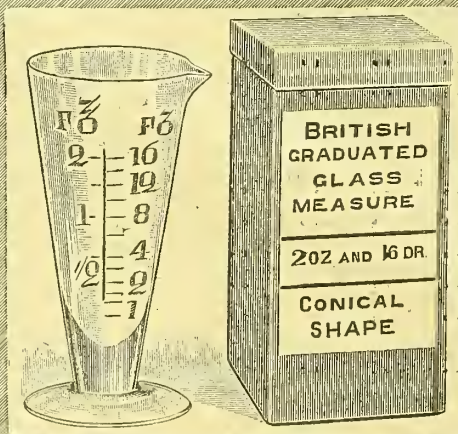
JULES LANG & SON

The Glass Specialists,

CHARLTON PLACE, ISLINGTON :: :: LONDON, N.1.

Codes:
A B C, 5th Edition,
Scott's 10th Edition,
1906, and Bentley's
Complete Phrase
Code.

TAYLOR'S



MEASURES

OVER 50 YEARS REPUTATION
F.H. TAYLOR & SONS LTD.
131, SEVEN SISTERS ROAD, LONDON, N.7.
(WHOLESALE ONLY)

BOTTLES & JARS

HAND BLOWN AND MACHINE MADE.

Baby Feeders, Glass Measures, Urinals

STOCKS ALWAYS HELD OF

Chemists' and Druggists' Bottles, Feeders, etc.

Lettered & Proprietary Bottles a Speciality

Write or 'phone (Central 2430, 5 lines), for Price List to:—

L. LePersonne & Co.

99 Cannon Street LONDON, E.C.4
(Strictly Wholesale only.)

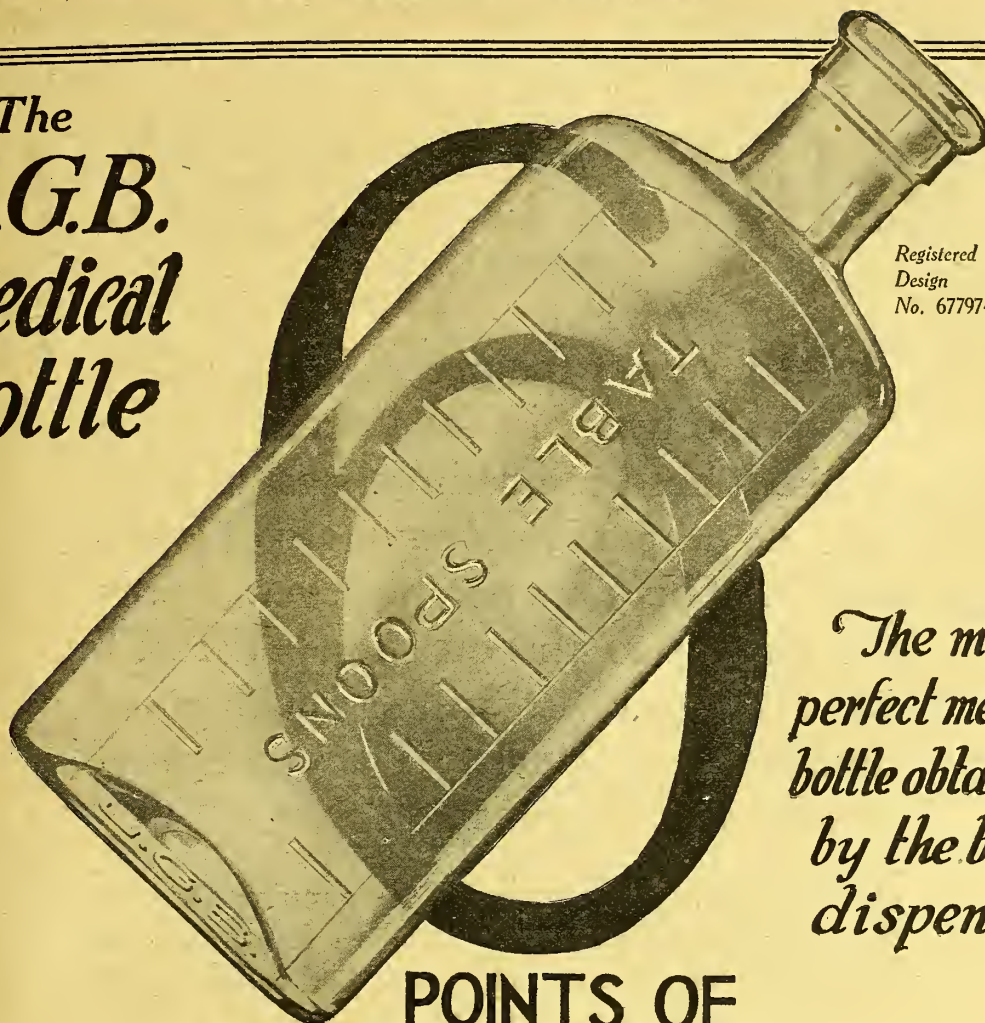
WAGNER'S DRY BOTTLE CAPS

BEST IN QUALITY & APPEARANCE



R.V. WAGNER
33, Brooke St., London, E.C.1.
Tel. No. Holborn 5090

The U.G.B. Medical Bottle



Registered
Design
No. 677974.

*The most
perfect medical
bottle obtainable
by the busy
dispenser*

POINTS OF PERFECTION

- | | |
|----------------------|-------------------------|
| 1. Even corkage | 4. Accurate Capacity |
| 2. Reinforced Lip | 5. Rounded Corners |
| 3. Rounded Shoulders | 6. Accurate Graduations |

The supremacy of the U.G.B. Medical Bottle over all others is reflected in the ever-increasing number of doctors, chemists and dispensers throughout the country who have proved that it pays to stipulate

U.G.B. MEDICAL BOTTLES

UNITED GLASS BOTTLE

MANUFACTURERS • LIMITED

Head Offices:

40/43 NORFOLK STREET, STRAND, LONDON, W.C.2

Telephone: Central 8080—8089 (10 lines).

Telegrams: "Unglaboman, Estrand, London."

Works: Charlton, London; Castleford, Yorks; St. Helens, Lancs.; Hunslet, Leeds; Seaham Harbour, Durham

U. G. B. — The Medical Bottle you can trust

WHAT IS LYSOL ?

As a result of the proceedings undertaken by us in the interests of the Public it has been definitely established that the proper cresol standard of Lysol is 50%. This does not, however, supply the answer to the question—**WHAT IS LYSOL?** It means much more than just 50% cresols. The question of quality still remains.

Our method of manufacture of the genuine Original Lysol indicates a particular standard for the cresols themselves and also a high particular standard for the other ingredients in order that a product of essential distinctiveness may result.

MARSHALL'S LYSOL being the original article—made from the original formula, in the possession of this Company, and in use for over 30 years, alone possesses the qualities that distinguish it from a host of imitations.

See that your Pharmacy stocks the genuine article and tell your customers about it. Only Pharmacists can sell **MARSHALL'S LYSOL**.

LYSOL LTD. LONDON S.W.20

HOT WATER BOTTLES

- ☞ An early start with the right article is the surest way to a record season.
- ☞ Single sample at quoted price post free to any Trading Chemist.
- ☞ Book your contract now—we protect you against price increase no matter what the state of the rubber market, and give you immediate advantage if prices are lowered during the contract period.

BRITISH made from the very finest materials, and under the most advanced manufacturing conditions. Every bottle is guaranteed burst-proof, because it is built with steam resisting rubber incorporated with a texture support. All seams are reinforced and are of extra width—a little point which means much. The valve is an improved type, flush with the neck so that no metal portion is unprotected. Other refinements include an extra deep neck support, giving additional strength and longer life to the bottle, and an extra wide funnel is provided for convenience and protection whilst filling.

HOT WATER BOTTLES

Finest Grey Rubber.

	8×6	10×6	10×8	12×6	
Singles	2/10	3/1	3/4	3/3	each
1 dozen Assorted	2/9	3/-	3/3	3/2	"
3 dozen Assorted	2/8	2/11	3/2	3/1	"
	12×8	12×10	14×8	14×10	
Singles	3/10	4/6	4/3	4/10	each
1 dozen Assorted	3/9	4/4	4/2	4/9	"
3 dozen Assorted	3/8	4/3	4/1	4/8	"

Chemist's own name moulded on three dozen lots.

Finest Red Rubber.

	10×8	12×8	12×10	
Singles	4/4	4/9	5/5	each
1 dozen	4/3	4/8	5/4	"
3 dozen	4/1	4/6	5/2	"

Moulded (Red Rubber) Bottles.

	2 quart—10×7	3 quart—11¼×7½	
Singles	5/3	6/3	each
1 dozen	5/2	6/2	"
3 dozen	5/-	6/-	"

Special quotations for 6 and 12 dozen quantities.

Get a sample and compare quality for price

DISPLAY—Is there anything more difficult to put on show than a Hot Water Bottle? You are dealing with expensive units, and the risk of spoilage by sun and dust is considerable. A rubber bottle falls "all of a lump" in the window and looks an untidy mess—certainly not an inducement for the public to stop and look. None of the rules of display can be followed—unless you have Ayrton's three-panel display screen, which needs only one Hot Water Bottle to make a "stop-the-people" Window Show.

AYRTON, SAUNDERS & CO., LTD.

"Everything Pharmaceutical." **LIVERPOOL.**

ESSENCES & SYNTHETICS, LTD.

WM. C. SLATER,
Managing Director.
ROYAL 290.



4 Carlisle Avenue,
E.C.3.

"ESSYNTHET, ALD, LONDON."

NEW CROP
OTTO OF ROSE
GUARANTEED PURE AND DISTILLED BY
BOTU PAPPAZOGLOU & CIE, Kazanlik
WILL SHORTLY BE AVAILABLE.

PLEASE WRITE FOR PRICES AND SAMPLES,

On the Scent of Easy Sales

"SUMMER FRAGRANCES!" The words alone conjure up visions of sunny countryside. The discovery that they form the name of perfumes made by Piver is a deciding factor in influencing sales.

LAST year the success of "Summer Fragrances" was instantaneous. This year, in addition to confirmed "repeats," there will be a greater volume of new business than ever.

BE prepared to meet it: "Summer Fragrances" are being consistently advertised. Link up with the advertising. Show the dainty *real* cut-glass bottles on counters and in windows. They sell with a minimum amount of effort.

L. T. PIVER'S SUMMER FRAGRANCES

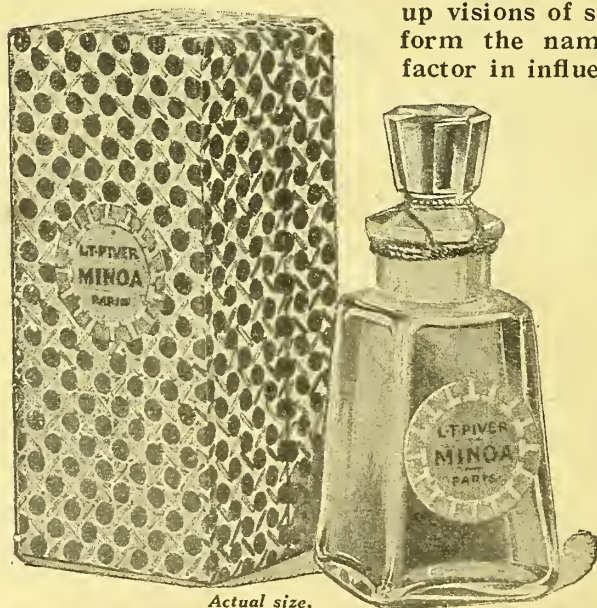
Minoa — Violette Régis — Sweet Pea — Lilalba — Muguet
Mayalis (Lily of the Valley) — Mimosa Ilex — Cyclamen Neige
— Jasmin Flava — Rose Soleil — Oeillet Frangé (Carnation).

Wholesale - 20/- per dozen.
Retail - 2/6 per bottle.

33 ¹/₃ % Profit.

Parfumerie L. T. PIVER (Paris)
London Depot: 102 DEAN STREET, OXFORD STREET, W.1.
Phone: Regent 5260.

Depot for Irish Free State: G. J. DAVIES, 27 Eustace St., Dublin.



Actual size.



"DISTOL" OTTOS

A UNIQUE series of concentrates enabling the Chemist to prepare perfumes of the highest class, quickly, easily and economically.

Why it pays to be a Distolist

"Distols" Save Time

Simply take 2 to 4 drachms of any "Distol" and add S.V.R. and Aqua Dest. to make up to one pint. Filtering, blending, tinting, distillation and other time-absorbing processes are quite unnecessary.

"Distols" Economise Spirit

Most of the "Distol" Ottos lend themselves to considerable dilution with distilled water without loss of their distinctive characteristics. Substitute alcohols can be used to great advantage.

"Distols" Save Capital

Large and expensive stocks of S.V.R. are not needed. "Distol" perfumery can be made in small quantities for quick sales. Your capital outlay is thus reduced to a minimum.

Let "Distols" increase Your Goodwill

Local proprietary perfumes and distinctive toilet preparations are easily made with the aid of "Distols." Business on these lines is pleasant, profitable and absolutely your own. Write for formulae and suggestions.

45 Varieties

Uniform in concentration and price—
7/6 per oz.

Samples of perfumes made from
any six "Distols" free on request

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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TRADE



MARK

SPURWAY'S AMERICAN BAY RUM

Made with Industrial Spirit.

Manufactured from genuine Oil of Bay.

It is of very delicate aroma, the smell of the spirit being completely covered.

It is of high spirit strength, containing 80% of spirit, and is a genuine drying and stimulating lotion.

IN BULK—15/- per gallon.
2/- per pint.

BOTTLES—11/- per dozen.
Or in 3 doz. lots,
10/- per dozen.

In 4-oz. frosted bottles, artistically finished.

Handsome show-cards sent with each consignment.

WRITE FOR SAMPLE.

SPURWAY ET CIE, LTD.

89 Great Eastern Street,
LONDON :: :: E.C.2.
CANNES-GRASSE, RIVIERA.
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LEIPSIC NEW YORK
KINGSTON (ONTARIO)

Telegrams
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"NEROLI, LONDON."
- BISHOPSGATE 1372.

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GERMANY

Distillers & Manufacturers of

**ESSENTIAL OILS,
SYNTHETICS, FLOWER OILS,
COMPOUND PERFUMES, etc.**

Specialities:

**TERPENE & SESQUITERPENE
FREE OILS (T.S.F.)
ORRIS OIL PRODUCTS,
B.P. ESSENTIAL OILS.**

SAMPLES AND PRICES ON APPLICATION TO
Sole U.K. Agents:

T. HARRISON & CO.

BURNLEY HOUSE, WILLESDEN, N.W.10.

Tel. No. Willesden 731

IMPORTERS OF CHEMICALS, DRUGS,
ESSENTIAL OILS, ETC.

STOCKS IN LONDON.

ESSENCES

HIGHEST CONCENTRATION.

Sole Agents for Gt. Britain and Colonies

FOR

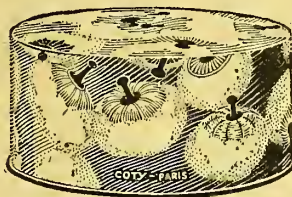
FRIES & BRO. NEW YORK

*The World-Renowned Makers of
FIRST QUALITY ESSENCES.*

Stocks in London.
**PEACH
APRICOT
HONEY
MAPLE
&c.**

*Ask for
Quotations
& Samples.*

A. CONNELL & CO., Melba House,
WENLOCK ROAD, CITY ROAD, LONDON, N.1
Phone: Clerkenwell 7266. Tele.: "Nitrozone, Ald. London."



Coty Compact Powders 062 Series
in twenty-one Parfums Creations and
nine true shades.

We remind the Trade that the retail price of this Speciality is to be reduced from 1/9 to 1/3 on the 1st October, but that during the month of September, as in August, it will be invoiced to the Trade at the new rate of 1/3 so as to allow an additional profit of 6d. per box on each box bought during this month.

We would strongly recommend customers holding stocks of this line to make very prominent displays so as to sell as much as possible before the retail price is reduced.

Show Cards and price tickets will be sent on request.

COTY (England) LIMITED,
Walmar House,
298, Regent Street,
LONDON, W.1.

PUFF BOWLS, PUFFS, Etc.

No. 660.

28/- doz.

LARGE VARIETY
OF DESIGNS.

Smaller size, 440,

20/- doz.



Alabaster Bowls

WITH KNOBS.

4 in. ... 2/6 each.

5 in. ... 3/3 each.

6 in. ... 4/- each.

Greek Key, 5/- each.

Assorted Colours.

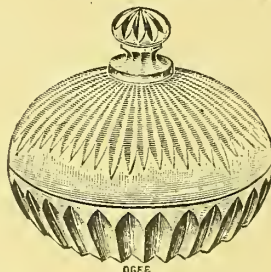
We can supply Alabaster
Bowls with Hand Painted
designs from 4/- upwards.

Wine Glass Puff Bowls

513. Complete with Puff as illustration,
3/- each.

512. With a cheaper Puff, 2/- each.

Pressed Cut Glass Bowls.



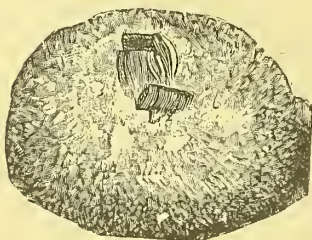
No. 6488 ... 9/- doz.

No. 945. Glass Puff Box 9/- doz.

No. 428/11/7612 ... 6/6 each.
As illustration.124/6. Similar, 57/- doz.
5/- each.124/5. Smaller, 51/- doz.
4/6 each.

SWANSDOWN PUFFS, ETC.

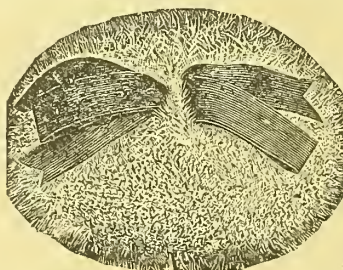
EMPRESS PUFF



With Ribbon.

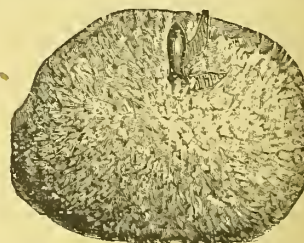
No. 0	...	...	5/- doz.
" 1	...	...	8/- "
" 2	...	...	11/6 "
" 3	...	...	15/6 "
" 4	...	...	19/6 "

BEST SWANSDOWN BATH PUFFS



4 in. each in special Box	18/- doz.
5 in. " " "	33/- "
6 in. " " "	51/- "
7 in. " " "	72/- "

HANDLE SNOWBALL PUFF



No. 0 with Knib	...	5/9 doz.
" 1	...	9/9 "
" 2	...	12/6 "
" 3	...	15/- "
" 4	...	20/- "

OSBORNE, GARRETT & CO., LTD., 51-54, FRITH STREET,
SOHO, LONDON, W.1



Retail
9^d
List Price
PER 7-DOZ
less usual generous
display
terms



Icilma Cream

now in a

New Vanity-Bag Size

An interesting announcement
has been posted to the trade giving full
particulars of a special offer—closing 30th Sept.

Now three sizes of
Icilma Cream

Extra large size 2/-

Popular size - 1/3

Vanity-Bag size 9d.

Usual generous terms to
the Trade.



**Always ask your
customer which
perfume is required.**

Bouquet—Blue Carton.
Magnolia—Green Carton.

A dainty green jar with cut glass
effect and “satin” cap, containing a
very generous quantity of cream for the
modest price of 9d.

*No change whatever has been made in
this World-Famous Face Cream—but there
are now two perfumes, BOUQUET, a
favourite for the past twenty-five years,
and MAGNOLIA, the new fragrance
which has won such great popularity.*

Scientifically packed — no fear of
shrinkage.

Put up in a dainty carton suitable
for a high quality line—ideal for window
and counter display.

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP .. A complexion soap.	10/-	1/-
PROLACTUM .. For the lips.	10/-	1/-
PARSIDIUM JELLY .. For wrinkles.	10/-	1/-
ALLACITE OF ORANGE BLOSSOM .. A dressing cream.	22/6	2/6
BORANIUM .. A hair tonic.	22/6	2/6
CLEMINITE .. For a face lotion.	22/6	2/6
COLLIANDUM .. For a face tint.	22/6	2/6
PERGOL .. A deodorant.	22/6	2/6
TEKKO PASTE .. Camphor cream.	22/6	2/6
STALLAX .. For a shampoo.	13/6 22/6	1/6 2/6
JETTALINE .. For clearing the skin.	31/6	3/6
PHEMINOL .. A depilatory.	36/-	4/-
MENNALINE .. For the eyelashes.	36/-	4/-
MERCOLIZED WAX .. A face cream.	18/- 31/6	2/- 3/6
STYMOL .. For oily complexions and blackheads.	36/-	4/-
SILMERINE .. Hair-curling fluid.	22/6	2/6
BARSYDE .. Dandruff eradicant.	22/6	2/6
TAMMALITE .. For grey and faded hair.	22/6	2/6
LIQUID PERGOL .. To check excessive perspiration locally.	31/6	3/6
BICROLIUM .. For whitening the hands.	22/6	2/6
COCONOIDS .. For figure development.	31/6	3/6

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES ..	36/-	4/-
For obesity.	58/6	6/6
SOFT PALERIUM ..	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

COLONIAL DEPÔTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON, Ltd., Cape Town, etc.
SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
A. L. CHOUDRY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington.
South America: DEARBORN (South America) Ltd., Calle Pávon 2100, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

Please
get your supplies of
AMAMI
Shampoos from
P. A. T. A.
WHOLESALE

They allow
just the same Bonus

10%
on six dozen
sixpenny Shampoos

AMAMI 4/10 Cheries St. London W.C.1.



THE ORIGINAL
:: AND ::
STILL THE BEST

JACKEL'S
CREAM
WITHOUT GREASE
FOR THE HAIR

SOLD EVERYWHERE.

1/9 PER BOTTLE 2/6

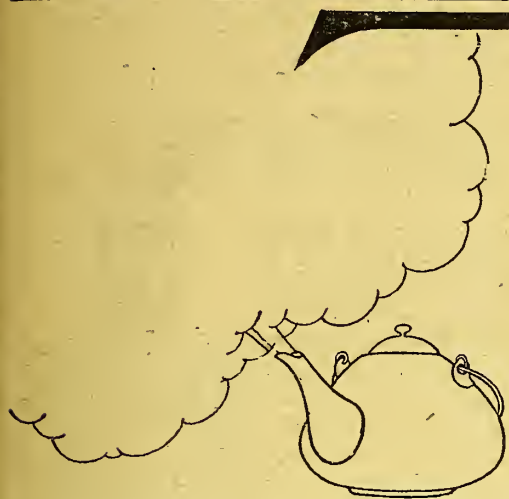
Jackel's Cream has now been over 40 years on the market and enjoys a steady reliable sale. Once a customer buys Jackel's, imitations have no appeal because Jackel's is still the best.

HOW ARE YOUR STOCKS AT PRESENT?

12/- and 18/- per dozen.
Retailing at 1/9 & 2/6 per bot.

SHOWCARDS AND PARTICULARS FROM
YOUR WHOLESALE HOUSE.

JACKEL et CIE (of Paris) Ltd.
GLASGOW.



he power of steam was known ages ago. But it isn't steam that pulls you by rail from London to Scotland. It isn't steam that carries you across the Atlantic to New York in a most luxurious liner. It is an idea.

The Elfrida Toilet Series was born of an idea to serve. To give to the everyday girl, at a popular price, goods of distinction, and equal to those used by more wealthy womenkind. The idea is sound and extends through every trade to-day. The West End of London is no longer twelve months ahead and the shopping centre of an exclusive few. What the West End has in the morning, the masses have the same day. Elfrida Creams, Powders, Per-

fumes, Silk Stockings, Tom Thumb Umbrellas, Shingled Hair etc. are a few examples.

Many people are surprised at the way in which "Elfrida" has become so popular. It is merely the development of a sound idea. Why not secure your share of this profitable and permanent business? To-day "Elfrida" enjoys a huge demand that has come to stay. Make a good display. The public will buy when they know you stock

A large, stylized, cursive signature of the word "Elfrida" in a dark ink. The letters are flowing and interconnected, with a prominent 'E' and 'l'.

THE SUPER TOILET SERIES

W. B. CARTWRIGHT LTD.
RAWDON NEAR LEEDS

The CHEMIST and - GREY HAIR Treatment

Ordinary hair dyes have long been discarded by progressive chemists as a means of treating Grey Hair. Methods which are haphazard and possibly harmful cannot receive their whole-hearted support.

That is the reason why NUCTONE has been selected by the most progressive chemists who wish to supply the increasing demand for a satisfactory hair-colour restorer.

NUCTONE is something different. It is the result of years of effort on the part of Research Chemists and Hair Specialists, and is backed by a most definite guarantee.

NUCTONE, aided by light and air gives a gradual return to the normal colour of the hair. Not only does it revive the colour, but it improves the general tone, lustre and texture of the hair.

NUCTONE is specially suited to the modern style of hair-dressing for after its use the hair can be permanently waved, shampooed, exposed to sea and sun, and dressed in any desired manner.

NUCTONE gives you a good profit.

Nuctone for GREY HAIR

In Four Grades:

NUCTONE for dark and medium hair.

3/9 size 32/- doz., 6/6 size 52/- per doz.

NUCTONE ECLAIRE for fair & auburn hair.

3/9 size 32/- doz., 6/6 size 52/- per doz.

NUCTONE CONCENTRE for Gentlemen's hair, 6/6 size 52/- doz., 12/6 size 84/- per doz.

NUCTONE ECLAIRE CONCENTRE for Ladies and Gentlemen with fair hair who want a quicker result.

6/6 size 52/- doz., 12/6 size 84/- per doz.

Obtainable from your usual wholesalers or direct from—

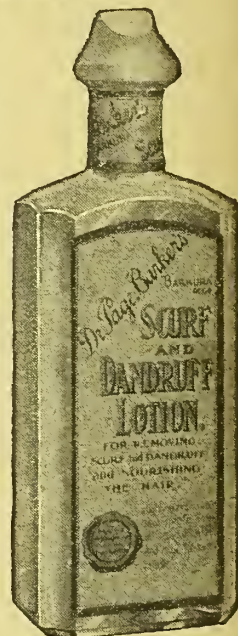
QUELCH & GAMBLE, Ltd.
211/215 Blackfriars Rd., London, S.E.1

Manufactured by

STEWART, GOODALL & DUNLOP, LIMITED,
4 Dering Street - - - - - London, W.1

Dr. Page-Barker's Scurf Lotion

THE specific recognised throughout the Trade as the one genuine and reliable remover of Scurf and Dandruff. Every bottle carries a guarantee. 18/- per dozen, retail at 2/6. With an order of three dozen you get a free bonus of three 2/6 bottles, also an attractive showstand. Smart show matter. Leaflets with your own name.



THOS. CHRISTY
& CO.

4, Old Swan Lane,
Upper Thames St.,
E.C.4.



Don't Forget

TO ORDER

DAGGETT & RAMSDELL'S PERFECT COLD CREAM

A PROFITABLE "QUALITY" LINE.

From all Wholesalers or from

BROOKS & Warburton
(A.D.S.Co.) Ltd.

40 LEXINGTON STREET, LONDON, W.1.

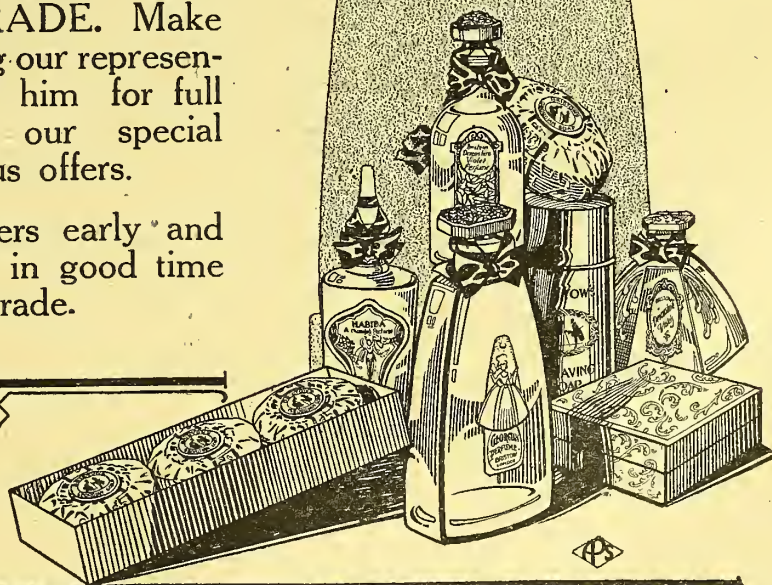
Coming Events!

COMING Events cast their shadows before! Be prepared for the rush of Xmas trade, and place your orders NOW for

TOILET SOAPS and PERFUMERY

BRISTOW'S complete series of Xmas Perfumery contain just the lines suitable for YOUR CLASS OF TRADE. Make a point of seeing our representative and ask him for full particulars of our special terms and bonus offers.

Place your orders early and ensure delivery in good time for the Xmas trade.



T. F. BRISTOW & CO., LTD.
Colindale, Hendon, N.W.9

Peldo
(Patent applied for)

**THE
INVISIBLE
GLOVE**

IF YOU SHOW 'PELDO' YOU WILL SELL IT!

'PELDO' IS ORIGINAL.

It is not a Substitution for Anything.

Obtainable from all the Patent Houses @ **13/6** per dozen.

WINDOW DISPLAY MATERIAL FREE ON APPLICATION.

SOLE PROPRIETORS AND MANUFACTURERS:

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf,

EMMOTT STREET, MILE END, LONDON, E.1.

English Peppermint Oil

SUPPLIES OF DILL OIL ALSO OBTAINABLE DIRECT FROM

Joseph Seymour,
Distillery & Herb Farm, Holbeach, Lincs.

A Verbena Bath Soap of exquisite fragrance—

**R. F. WHITE
& CO., Ltd.**

*The Non-Combine
Firm*

Victoria Station
House,
LONDON, S.W.1

Verbena Soap is an extremely popular line, especially so when it is well perfumed and not just an ordinary Lemongrass-Citronella odour. Many of the large London buyers have agreed that

OUR VERBENA IS UNIQUE.

OUR PRICE IS COMPETITIVE AND OUR PACK ELEGANT.

6-oz. Round Bath ($\frac{1}{2}$ dozen boxes) - - 66/- gross

Less 2½% cash in 14 days. Carriage paid in free cases. Own Name on 5 gross.

Absolutely Reliable.**SACKER'S HYGIENIC COMB**

The Greatest de-Louser and NIT Remover ever invented.

Highly recommended by all the leading members of the School Medical Service in the U.K.

Made of Metal in Two Grades.

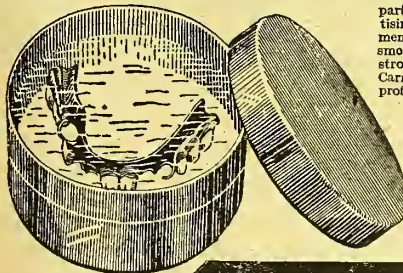
Retail at 2/9 and 5/6 each.

Wholesale 24/- and 48/- per dozen.

MANUFACTURED BY

SACKER'S HYGIENIC COMB & TOILET SUPPLY CO.
13 BLACKSTOCK ROAD, LONDON, N.4.**"SANNAKLEEN"**A NEW TYPE
SILVER-
PLATED
SCURF
COMBFor Nursery
or
Toilet Table.RETAIL
2/6 ea.WHOLESALE
20/-
PER DOZ.**Tiffin's Dentabath**

increases its Sales month by month.



partly by persistent Advertising, partly through recommendation. It promotes smooth, germ-free dentures—stronger, healthier gums. Carries a useful margin of profit, too!

Retail at..... 4/6

Doz. lots, 39/- c. fd.

2 doz. ,, 39/- c. pd.

London Wholesalers:

WARRICK BROS.

6 Nile St., City Rd.

Makers: N.I.

Tiffin's Dentabath, Ltd., South Shields.

MORTON FOR RAZOR BLADES.

He's a Keen Cutter and

He's British.

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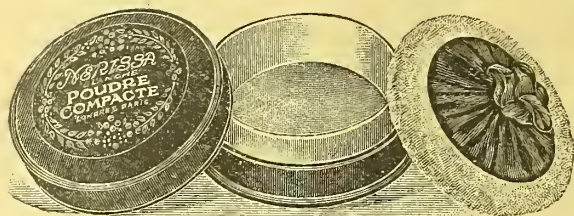
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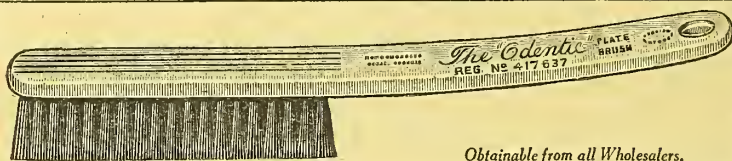
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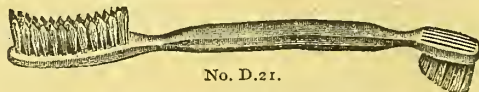
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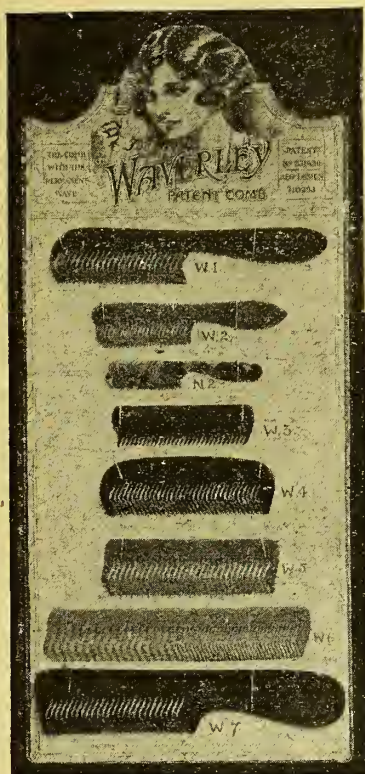
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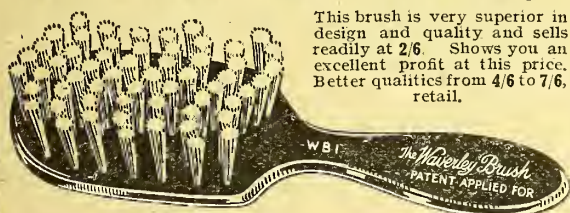
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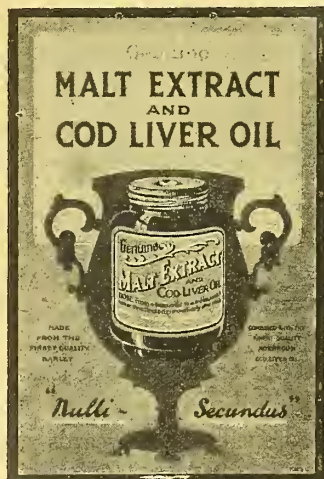
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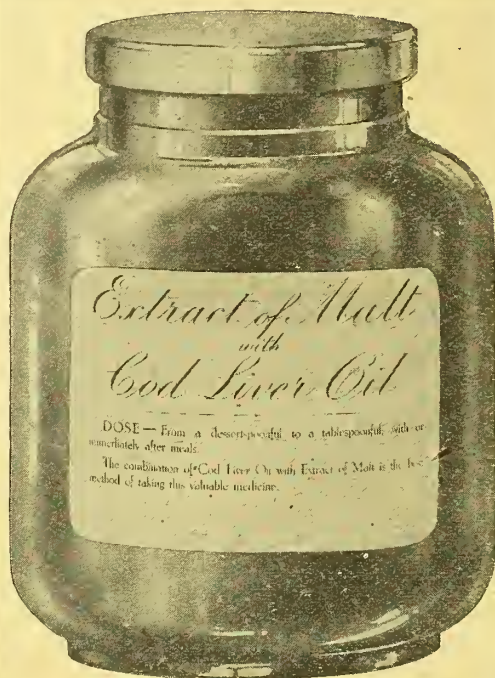
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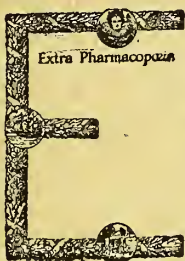
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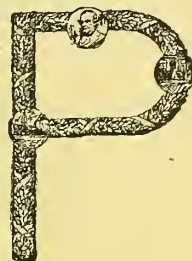
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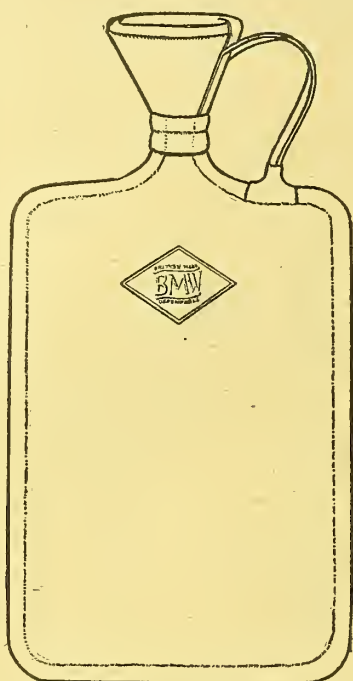
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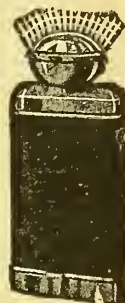
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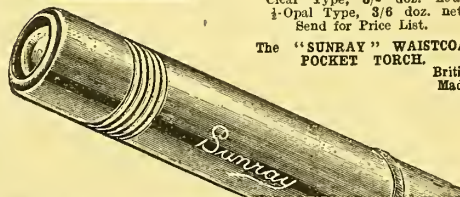
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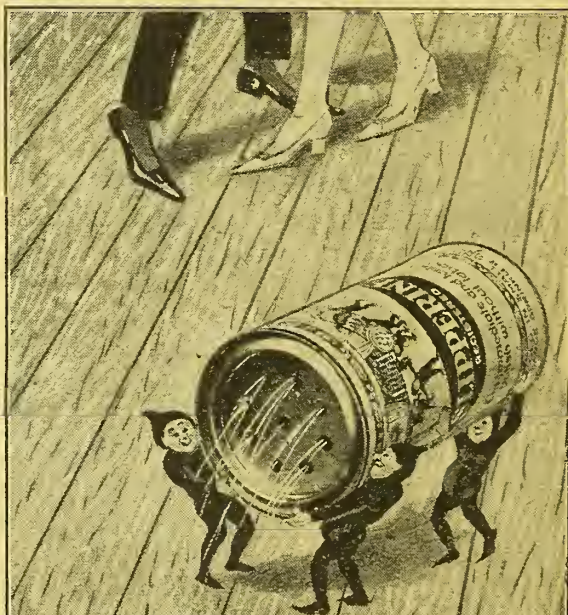
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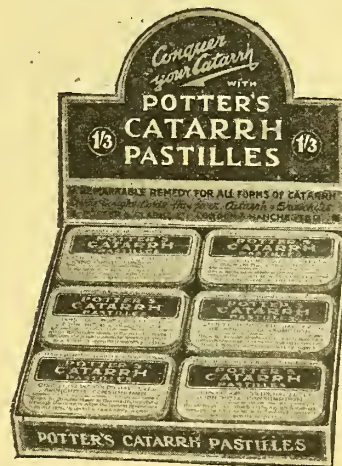
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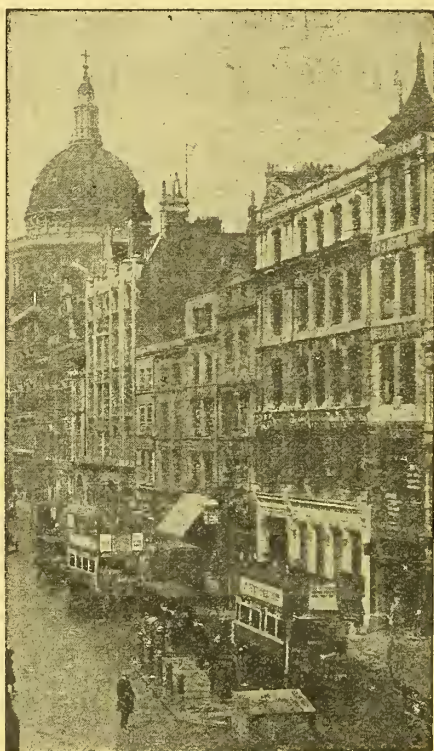
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Contents

No. 10	Series 2380	Vol. 103	
	PAGE	PAGE	
Births	349	Editorial Articles:—	
British Association	347	The Mercury Position	352
Business Changes	349	The Constitution of the Earth	353
Centenary of Photography	342	Insurance Dispensing Position—IV	354
C. & D. Commercial Compendium	363	Insurance Act Dispensing	360
C. & D. Retail Price List	350	Marriages	349
Coming Events	360	New Companies and Company News	343
Company News	343	Observations and Reflections	351
Correspondence:—		Personalities	349
Letters	360	Physico-Chemistry	348
Dispensing Notes	361	Recent Patents	360
Subscribers' Symposium	361	Retrospect	362
Legal Queries	361	Scottish News	342
Miscellaneous Inquiries	362	South African News	346
Deaths	349	South African Tariff	344
English News	341	Stock Exchange Prices	343
Information Department	350	Trade Notes	350
Irish News	342	Trade Report	356
		Wills	349

"C. & D. Diary," 1926

"Known, Admitted and Approved" Remedies

The publication of *The Chemist and Druggist Diary*, 1926, affords a unique opportunity of registering formulas for "known, admitted and approved" remedies, which can then be sold by chemists free of medicine-stamp duty, provided the appropriate reference to this standard work is given on the label of the preparation. Owing to changes in poison law, e.g., the Labelling of Poisons Order, which on and after January 1, 1926, requires the proportion of the poison contained in a preparation to be stated on the label, many chemists will require to have new labels printed, and in any case may desire to modify the formulas already in use. The publication of *The Chemist and Druggist Diary* gives the opportunity of modifying formulas. It is necessary that formulas, either new or modified, with the title under which the article is to be sold, should be submitted **not later than October 16** for inclusion in the *Diary* which will be published in December. Formulas, which must be written on one side of the paper only, should be addressed to the Editor, C. & D., 42 Cannon Street, London, E.C.4.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report:—

At Cardiff, William A. Manley, an ex-Service man, described as a chemist, committed suicide by taking potassium cyanide while of unsound mind. Mr. Harry Nelson, chemist and druggist, manager to L. Rowland & Co., chemists, deposed to the sale, adding that Manley, who was at one time in Messrs. Rowland's employ, said he wanted the cyanide for photographic use.

A verdict of "Death by misadventure" was recorded by the deputy-coroner for Westminster at the conclusion of an inquiry, held on September 1, concerning the death of Mr. R. C. Dimmock, a man of independent means, residing in Half Moon Street, W. It appeared that small brown tubes found in his possession had contained morphine sulphate; a medical witness, however, stated that he had never prescribed morphine for the deceased, and had never had reason to suspect him of taking it. Morphine was found by another witness in the organs submitted.

An inquest was held recently at Hove on the body of Lieutenant-Colonel J. J. de Z. Marshall, L.R.C.S. Irel., who, the evidence showed, died after being in a comatose condition for several hours. A medical witness stated that on seeing the patient he came to the conclusion that Dr. Marshall was suffering from an overdose of morphia, and everything possible was done for him, but he gradually slept away and died. The Deputy-Coroner: Was he in the habit of taking drugs of his own prescription?—Yes, I knew he was in the habit of taking drugs, which I believe he obtained from London, but I did not know that it was morphia. He took the drugs with a view to reducing the pain and for his cough. He suffered from bronchitis as well as rheumatoid arthritis. A verdict of "Accidental death" was recorded.

Birmingham

A business efficiency exhibition is being held in the Town Hall until September 10.

Oxalic acid is being strongly advocated in the local Press as a cheap brass polish, for removing stains and for cleaning straw hats.

Writing recently in the "Birmingham Post," Mr. Lawrence C. Tipper (B. C. Tipper & Son, Balsall Heath), chairman of the Animal Medicine Makers' Association, remarks: "Whilst it is desirable that every reasonable measure should be taken to prevent poisoning, care must also be taken to prevent unnecessary and undue interference with traders. . . . I think the general public would be astonished if they knew the actual small percentage [of deaths] due to poisoning, whether inadvertently or by suicide. The suicide will find methods of putting an end to his existence, whatever restrictions may be imposed on poisons. Poison restrictions applicable to medicines are extremely irksome, to the chemist, to the medical profession, and to the manufacturer."—The correspondence was continued in the same paper by Mr. Thomas Reade, chemist and druggist, Wolverhampton, who, referring to the Labelling of Poisons Order, considers that the effect of this legislation would be "to familiarise the public with the names of poisons they have never heard of, and to increase the danger of misuse of such poisons. . . . So long as a medicine containing a poison is labelled 'Poison' it is a mistake, and a dangerous mistake, to require the name of the poison to be published also. There is no need for such publication."

Liverpool

Mr. G. R. Tharratt, Ph.C., Myrtle Street, has opened a branch in Fenwick Street.

Mr. W. S. Corkhill, Oldhall Street, has removed to premises on the opposite side of the street.

R. & J. Herman, Aintree, have transferred their business in Parker Street to their branch in Water

Street, owing to the Corporation requiring the building for street improvements.

Mr. W. H. Millhouse (London), who is well known in local wholesale circles, having held a responsible post in Liverpool for many years, has been spending a short holiday here.

August will be remembered as one of the worst months for business for many years. Many thousands of people have passed through the port to and from all parts of the world; but shopkeepers and all concerned found the "birds of passage" very careful in spending money.

Sheffield

Mr. C. H. Bradwell, Shoreham Street, has been appointed to represent Johnson & Johnson (Great Britain), Ltd., from Nottingham to Carlisle.

Chemists' accounts for Insurance dispensing for the month amount to £1,721 17s. 7d. Messrs. H. B. Hammond and G. F. Shepherd have joined the panel.

Mr. Leslie Piper has been co-opted a member of the committee of the local branch of the League of ex-Service Pharmacists. The members of the branch hope to hold a dinner in November.

Miscellaneous

BRITISH EMPIRE EXHIBITION.—It is announced that the Executive Council of the British Empire Exhibition has authorised the Board of the Exhibition to set up a realisation committee to deal with all questions relating to the assets of the Exhibition and to the future of Wembley. Mr. J. H. Thomas, M.P., has agreed to accept the chairmanship of this committee, and Mr. H. A. Beckenham will act as secretary; all communications should be addressed to him at the Administration Office, Wembley.

BRITISH INDUSTRIES FAIR.—It is stated in "The Times," of September 3, that the Treasury has acceded to the request of the Board of Trade to make a grant of £20,000 to assist in the promotion of the British Industries Fair. The Fair will be revived next year, and will be held probably at the White City, London, W., from February 15 to 26. The subsidy will be expended in advertising the Fair more extensively, and in reducing the cost to exhibitors, who will now be charged 2s. 6d. per sq. ft. for space, instead of 3s.

IN THE COURTS.—At Reigate, on August 27, William C. Cole, Hatchlands Road, Redhill, was fined £2 for the unlawful use of the description "the animal specialist" and of words indicating a qualification to practise a branch of veterinary surgery.—At Church Police Court, on August 27, Doris Brown, weaver, was bound over on a charge of stealing a camera, value £2 2s., from the shop of Mr. H. E. Beswick, chemist and druggist, Blackburn Road, Clayton-le-Moors.—At Tunbridge Wells, recently, Roger Nicholson, described as a chemist, was fined 10s. for "wilful damage to a fire alarm." The defence was that Nicholson had been nearly run over, and broke the glass in error.—At East Ham Police Court, on September 1, L. Choi, seaman, was fined £10 for unlawfully importing $\frac{3}{4}$ lb. of opium.

Scottish News

Brevities

Baillie S. McConnell, chemist and druggist, Johnstone, has been appointed to represent the town council at the congress of the Royal Sanitary Association.

Mr. John Skinner, chemist and druggist, Stirling, has opened a branch at 55 Balkerach Street, Doune, under the management of Miss Kate G. MacConnachie, chemist and druggist.

Glasgow

An instructive article on colloids, the author of which is Dr. A. C. Brown, Royal Technical College, appeared in the "Glasgow Herald," August 28.

The third round of the Virol cup competition of the Glasgow Pharmacy Golf Club was played at Whitecraigs on September 1. Mr. R. M. Jack won the cup with a score of 149, and the following were the winners of sweepstakes: *First class*: D. Robertson 74; D. G. McKenzie 77. *Second class*: D. Cross 73; J. M. Hart 74.

Irish News

Brevities

Mr. A. Bourke, M.P.S.I., Castlebar, has been appointed a Peace Commissioner.

Mr. Horatio Todd, President of the North Irish Pharmacists' Association, was sworn in at Belfast Police Court on August 28 as a magistrate for the city.

Mr. J. White, R.D., has opened a new Medical Hall at Waterside, Coleraine. He was previously in Fermoy. His brother, Mr. J. H. White, Ph.C., is also in business in Coleraine.

An enjoyable afternoon was spent on August 29 by the large number of guests who attended a delightful garden party given by Mr. John Smith, President of the Dublin and Provincial Branch of the Retail Drug Association, and Mrs. Smith at their residence, Kilvare, Tempelogue, co. Dublin. There was a very representative gathering of pharmacists and their friends. The weather conditions were ideal, and a musical programme was gone through by a ladies' orchestra, the visitors also enjoying the performance of a tennis party. Refreshments were served from a marquee erected on the lawn.

Centenary of Photography

THE centenary of photography, which is being celebrated this year, is commemorated at the International Exhibition of Photography, Princes Galleries, London, W.1, by a display of early apparatus and photographs, which, compared with the latest works of art surrounding them, strikingly illustrate the progress that has been made since Nicéphore Niépce obtained his photo-etched plate in 1826, twenty-five years after the failure of Tom Wedgwood, son of Josiah Wedgwood, to obtain a permanent record of shapes and objects by the use of light. The historical exhibits number over 160, and among those of outstanding interest are two stereoscopic daguerreotypes (4 and 5) of a laboratory; a daguerreotype of Professor Michael Faraday (6); a copy of the "Illustrated London News," August 1846, containing what are probably the first advertisements of professional photographers (16); three calotype prints from paper negatives, taken and printed by Fox Talbot about 1840 (18); a copy of "The Pencil of Nature," the first book to be illustrated by photography (42); albumen prints of circa 1850 (46); and two child studies taken on wet plates about 1870, before the days of instantaneous photography (51). Mention may also be made of portraits taken by the Luxograph, the first artificial light for portraiture—this consisted of a continuous flash in front of a parabolic mirror reflector with a diffuser interposed and a chimney for carrying the fumes out of the studio (56); an example of instantaneous photography taken in 1880 on Wratten plates costing 12s. per doz. (60); a series of experiments in direct colour photography on paper, in some instances taken in a single exposure (101); the earliest photographer's business card (116); the first showcard of a photographer, "Mr. Beard, Sole Patentee of the Daguerreotype and Photographic Portraiture" (117); and the earliest photograph of the spectrum, taken by W. Draper, July 27, 1842 (120). Exhibits Nos. 141 to 153 are a series of photographs which were lately transmitted over the telephone line. Copies of several of these have recently appeared in the technical and lay Press, but at the Exhibition the visitor can compare the transmitted with the original photograph, and thus get a better idea as to the progress and accuracy attained in this branch. In a separate case are shown a number of pieces of early apparatus (Nos. 154 to 161), including a daguerreotype developing box of 1850; an early type of developing tray with plate lifter; an albumen mixer; an early design exposure meter; an early dark-slide for dry plates, made of cardboard. In addition, there are many portraits of wider historical interest, particularly when events of the past decade are borne in mind. The professional part contains examples from workers, not only in this country but also from Spain, the United States, Holland, Austria, Sweden, India and Ceylon, Canada, Italy and France. The Exhibition closes on September 19.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

R. M. LINDSAY (DUNDEE), LTD. (P.C.).—Capital £800. Objects: To carry on the business of wholesale, retail, manufacturing and dispensing chemists and druggists, drysalters, etc. Solicitor: J. Simpson, 12 Bank Street, Dundee

CENTRAL PHARMACY (ROSSINGTON), LTD. (P.C.).—Capital £500. Objects: To carry on the business of wholesale and retail chemists, druggists, pharmacists, perfumers, manufacturers of and dealers in toilet articles, patent-medicine dealers, factors of photographic apparatus, etc. The directors are: S. T. Varah and E. N. V. Abraham.

WILLIAMS (HOUNSLOW), LTD. (P.C.).—Capital £200,000. Objects: To acquire the business of manufacturers of and dealers in aniline dyes and chemicals carried on by the trustees of the will of the late C. L. Williams as Williams Bros. & Co. at Hounslow and elsewhere. The first directors are: F. W. G. Williams, S. Meymott, H. C. Richardson, and G. G. Williams. R.O.: 179 Hanworth Road, Hounslow.

GEO. SQUIRE, LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of a wholesale and retail chemist and druggist carried on by Edith Squire at 19 Haymarket and 152 Sharrow Lane, both in Sheffield, as "George Squire," and to carry on the same and the business of pill manufacturers, herbalists, druggists' sundriesmen, vendors of patent medicines, preserved foods and proprietary articles, etc. The permanent directors are: Edith Squire and W. F. Mylan. Secretary: R. Blackburn.

ISON'S EYE AND EAR DISPENSARY, LTD.—At a meeting held in Leeds on August 21 it was resolved that this company be wound up voluntarily. Mr. H. E. Harwood, 73-75 Albion Street, Leeds, was appointed liquidator, and a meeting of creditors will be held at the above address on September 9.

RENNACID CASEIN, LTD.—A meeting of creditors was held on September 1. The chair was occupied by Mr. E. V. Amsdon, liquidator, who submitted a statement which disclosed liabilities of £607 18s. The assets consisted of book-debts, estimated to realise £200, and other items, making a total of £299 17s. 8d. (net, £298 7s. 8d.). The chairman reported that the company was registered in 1923 for the purpose of carrying on business as merchants in casein and similar products. The nominal capital was £1,000, of which £730 was issued for cash, and was fully paid up. During the first year a considerable turnover was done, but since June 1924 the sales had fallen off. A resolution was passed confirming the appointment of Mr. Amsdon.

B. LAPORTE, LTD.—The annual general meeting was held at the Luton Chamber of Commerce, 11 George Street, W., Luton, on August 26, Mr. H. E. Alcock (chairman and managing director) presided, and in the course of moving the adoption of the report said that they would agree with him that the report is very satisfactory. Moreover, the outlook is distinctly promising for the future, in spite of the adverse economic conditions under which British industry is so severely handicapped at the present time. Continuing, the chairman said that "There is no doubt that a dividend of 11 per cent. is a very good return for those who have been fortunate enough to secure your shares at a few shillings above par, but do not forget there are many others who have paid considerably more, and to those the return is small enough. Consistent with safeguarding the company's interests, the dividend is as high as possible, just as the wages we pay are as high as possible. Coupled with the company's interests are those of our customers, to whom it is our duty to supply our products at the lowest possible price. In this connection I wish to mention that there is a growing tendency, particularly amongst responsible British manufacturers, to buy British goods, although in some cases foreign goods produced by low-paid Continental labour may be temporarily lower in price than the British product." The report was unanimously adopted.

Stock Exchange Prices

£1 Shares unless otherwise stated	Dec. 30, 1924	July 31, 1925	Aug. 31, 1925
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord.	21 0	21 6	21 0
Anal. Dental Co. 8% Prefd. Ord.	—	18 9	20 0
Deferred 5s.	—	5 0	6 9
Apollinaris and Johannis, Ord. £1..	8 9	7 0	7 3
Ayrton, Saunders & Co., 7½% Pref.	15 3	14 9	14 0
Beecham Estates and Pills, 8% cum. Pref.	21 6	20 6	22 3
Benger's Food, Ord.	36 6	34 6	34 6
Boake (A.), Roberts & Co., 5% Pref. £10	£6½	£6½	£6½
Boots Pure Drug, Ord.	123 9	138 9	142 6
Boots Pure Drug, 7% "A" Prefd. Ord.	23 6	24 0	24 0
Boots Cash Chemists (Southern), 6% "A" Pref.	21 6	21 9	21 9
Borax Consol., Dofd. Ord.	43 0	38 0	36 9
Bovril, 6% Pref.	22 6	22 0	22 6
Ord.	24 0	24 0	24 3
Dofd.	46 9	43 6	47 0
British Celanese, Ord.	8 0	8 0	9 0
7½% Pref.	11 0	11 0	12 9
British Cyanides, Ord.	9 3	5 0	4 0
British Dyestuffs Corp., 7% Pref.	12 9	10 3	9 6
Prefd. Ord.	6 6	4 6	4 3
British Glues and Chemicals, Ord.	4 0	4 0	3 6
8% Pref.	12 3	14 6	15 0
British Oil and Cake Mills, Ord. . .	24 6	27 6	27 3
British Oxygen, Ord.	35 6	27 0	27 6
British Photographic Industries, 6% Cum. Pref.	5 0	7 6	6 3
Brunner Mond, Ord.	38 9	38 3	37 9
7½% Pref.	28 6	26 6	26 6
Bush (W. J.) & Co., 5% Pref. £5	67 0	63 9	65 0
Cadbury Bros., 6% Pref.	24 0	23 0	23 6
Callard, Stewart & Watt, Ord. . . .	31 3	33 0	32 0
5½% Pref.	17 6	17 6	17 6
Crosfield (Joseph) & Sons, 6½% Pref.	20 3	19 6	19 6
Dubarry Perfumery, Ord., 1s. . . .	4 6	6 3	6 3
7½% Pref.	19 3	19 0	20 0
Eastman Kodak Com. (no Nom. Value)	£118½	£110	£110
Evans Sons Leschor & Webb, Ord.	5 0	4 3	3 6
5% Pref.	7 9	6 0	6 0
Field (J. C. & J.), Ord.	16 3	15 9	15 0
7% Pref.	20 0	20 3	21 6
Gossage (William), 6½% Pref. . . .	19 9	19 3	19 3
Grout & Co., Ord.	50 6	55 0	55 0
Heppells, 7% cum. partic. Pref. . . .	17 6	21 0	21 0
Idris & Co., "A" Ord.	17 6	18 9	18 9
Ilford, Ltd., Ord.	24 0	25 0	25 0
6% Pref.	19 3	19 3	19 6
Intern. Sponge Importers, 6% Pref.	10 6	12 6	11 3
Kent (G. B.) & Sons, 5½% Pref. . . .	13 0	13 0	13 0
Knight (John), 25% Prefd. Ord. . . .	63 0	57 6	58 9
Lever Bros., Ltd., 7% Pref.	21 6	20 0	20 6
8% Pref.	21 3	19 6	20 0
20% Prefd. Ord. 5s.	11 0	10 6	10 9
Liebig's Ext. of Meat, Ord. £5 . . .	£15½	£14½	£15
Mellin's Food, 6% Pref.	12 0	12 0	12 0
Mond Nickel Co., Ord.	44 6	36 6	36 6
7% Cum. Pref.	25 6	24 6	23 9
Nathan (Joseph) & Co., 7% Pref.	15 0	12 0	13 6
8% Prefd. Ord.	7 6	5 3	5 9
National Drug and Chem. Co. of Canada, 6% Pref.	15 0	5 3	5 0
New Transvaal Chemical Co., 6% Pref.	17 6	17 0	17 0
8% Pref.	21 0	20 0	18 9
Salt Union, Ord.	28 6	26 3	28 0
Pref.	29 6	27 9	28 9
"Sanitas," The, Co., 9% Pref.	25 0	25 0	25 0
Schweppes, Ltd., Ord.	21 0	22 0	22 0
Dofd.	29 3	35 6	38 6
Smith (Stephen) & Co., 6% Pref. . . .	29 6	31 9	31 6
Southall Bros. & Barclay, Ord. . . .	57 0	52 0	53 6
5% Pref.	19 0	19 0	19 0
Spratt's Patent, Ord.	40 0	44 0	47 6
Stevenson & Howell, 6½% Cum. Pref.	20 0	20 0	20 0
United Alkali, Ord.	39 0	36 0	36 3
United Glass Bottle Man., 6% Mt. Deb. Stk., £100	—	£96½	£96½
Venesta, Ltd., Ord.	26 6	24 0	24 3
7% Pref.	20 0	21 0	21 0
Veno Drug Co., 8% Pref.	—	19 9	19 6
Virol, Ltd., Ord.	82 6	90 0	85 0
7% Pref.	23 0	23 3	23 0
White (A. J.), Ltd., Ord. 10s.	7 0	8 0	7 6
White (R.) & Sons, 6% Pref.	16 9	17 6	17 6
Prefd. Ord. 10s.	6 6	7 0	6 9
Wright, Layman & Umney, 6% Pref.	19 6	19 0	19 3

New South African Tariff

THE "Customs Tariff and Excise Duties Amendment Act, 1925," for the Union of South Africa has passed both Houses of Parliament, and became operative on July 30. The chief alterations are that the 3 per cent. preference enjoyed by the United Kingdom has been abolished. Preferential rebates of duty on certain specified goods are, however, allowed to the United Kingdom, Canada, Australia, and New Zealand (patent or proprietary foods). It will be seen that the general tariff provides for free import, under conditions and regulations of articles (otherwise liable to duty under Clauses 1-14) if intended for use only in the manufacturing industry and mentioned in each instance. The "maximum tariff" will operate normally; the "minimum tariff" will be granted to British Possessions which grant reciprocal privileges (Chapter I, paragraph 6). Foreign States may also obtain such minimum rate (Chapter I, paragraph 7) on a reciprocal basis, subject to the rates not being extended to any goods specified in the list of goods for which special preference is given to the United Kingdom (Part I of Second Schedule). "Suspended duties" may be brought into operation by proclamation in Government Gazette (Chapter I, paragraph 3). "Dumping duties" are dealt with in Chapter II. "Excise and Customs duties on tobacco" are dealt with in Chapter III, part 1, and "Excise duty and rebates on spirits" in Chapter III, part 2. Protective duties may be withdrawn from any industry which is charging unduly high prices, or acting in restraint of trade, or in such a way as to establish a monopoly, or is maintaining unsatisfactory labour conditions (Chapter I, paragraph 4).

The following are the items of interest to the chemical, drug and allied trades:—

TARIFF OF CUSTOMS DUTIES

		Minimum Duty	Maximum Duty
Baking powder	per lb.	£ s. d. 0 0 4	£ s. d. 0 0 4
Chillies and turmeric:—			
(a) Chillies, dried	per lb.	0 0 2	0 0 2
(b) Turmeric, ground	per lb.	0 0 2	0 0 2
(c) Turmeric, unground	per lb.	free	free
Cream of tartar	per lb.	0 0 3	0 0 3
Extracts and essences of all kinds for food and flavouring, n.e.e., in- cluding concentrated soap	ad val.	25%	25%
Foods:—			
(a) Specially prepared for infants	ad val.	15%	15%
(b) Patent or proprietary farina- ceous and cereal foods, in- cluding maizena, but not in- cluding oatmeal and rolled oats	ad val.	20%	25%
Gelatin, animal or vegetable:—			
(a) Not in bulk	ad val.	20%	20%
(b) In bulk	ad val.	Free	5%
Glue: in bulk	ad val.	Free	10%
Hops: in bulk	ad val.	Free	5%
Jams, jellies and honey; pudding, cake and jelly powders	per lb. or ad val.	0 0 2½ 30% (which ever duty shall be the greater)	0 0 2½ 30%
Lard and edible meat fats	per lb.	Free	Free
Rennet	—	Free	Free
Spices:—			
(a) Not ground or crushed	per lb.	Free	0 0 0½
(b) Other	per lb.	0 0 2	0 0 2½
Starch:—			
(a) Potato farina	ad val.	Free	3%
(b) Other	per lb.	0 0 1	0 0 1
Saccharin and other similar sweet- ening substances, and materials capable of conversion into such substances	per lb.	1 0 0	1 0 0
Vinegar, per gallon of any strength, not exceeding 6 per cent. by weight of acetic acid:—			
(a) in bottles or vessels of a capa- city of not more than one imperial quart	per imp. gallon	0 1 0	0 1 0
(b) in larger vessels, or in bulk	per imp. gallon	0 0 6	0 0 6

		Minimum Duty	Maximum Duty
Beverages:—			
(a) Fruit juices, cordials and syrops, n.e.e.	ad val.	£ s. d. 25%	£ s. d. 25%
(b) Other kinds, n.e.e. and not ex- ceeding 3 per cent. proof spirit	ad val.	25%	25%
Spirits:—			
(a) Perfumed	per imp. gallon (and in addition ad val.)	1 19 0	1 19 0
(b) Liqueurs, cordials and mixed potable spirits, exceeding 3 per cent. proof spirit	per imp. gallon (or 25% dnty shall be the greater)	1 18 6	1 18 6
(c) Other potable spirits, exceed- ing 3 per cent. of proof spirit [No allowance will be made for under- proof in excess of 15 per cent.]	per imp. proof gallon	1 17 6	1 17 6
(d) Medicinal and toilet prepara- tions and essences (liquid), syrops and tinctures: con- taining over 3 per cent. of proof spirit, and including those made from wine	per imp. gallon (or 25% ad val. whichever dnty shall be the greater).	1 18 6	1 18 6
[Such spirits if and when o.p. shall be specially entered and the strength o.p. declared, and the duty on the mixture shall then be leviable at £1 17s. 6d., per imperial proof gallon, or 25 per cent. ad val., whichever duty shall be the greater.]			
(e) Colloidon and iodiser, con- taining over 3 per cent. proof spirit	per imp. proof gallon	1 17 6	1 17 6
[No allowance will be made for underproof in excess of 15 per cent.]			
(f) Methylated spirits, and solid- ified alcohol for burning purposes, containing over 3 per cent. of proof spirit	per imp. proof gallon	1 17 6	1 17 6
(g) Wood naphtha and methyl alcohol	ad val.	20%	20%
Waters: mineral, aerated and table:—			
(a) In bottles containing each not more than ½ reputed pint	per doz. botts.	0 0 9	0 0 9
(b) In bottles containing each more than ½ reputed pint and not more than 1½ reputed pints	per doz. botts.	0 1 0	0 1 0
(c) In larger size bottles or other containers	per imp. gallon	0 1 0	0 1 0
Cash registers and calculating machines	ad val.	15%	20%
Crown corks and similar stoppers (not being screw stoppers or swing stoppers), made of metal or other material, used alone or in combination with cork or other substances as stoppers for bottles and jars of common glass	per gross	0 0 3	0 0 3
Cylinders:—			
(a) For use, or used, as con- tainers of oxygen, carbonic acid or other gases under pressure, or of compressed air (not being parts of acety- lene gas lamps)	ad val.	Free	3%
(b) Other, and empty metal drums	ad val.	15%	20%
Gold and silver leaf	ad val.	Free	5%
Quicksilver	—	Free	Free
Wireless telegraphy and telephony instruments and apparatus used in the working thereof	ad val.	Free	5%
Barytes and pumice; in bulk	ad val.	Free	3%
Bottles and jars of common glass or earthenware, being ordinary trade packages for the transport of goods and including fruit jars:—			
(a) Imported full of any article liable to a rated duty	—	Free	Free
(b) Empty (including bottles and siphons ordinarily used for aerated waters)	ad val. plus a ad val.	Free 20%	5% 20%
Fuller's earth, not being a toilet preparation: in bulk	ad val.	Free	3%
Rough optical glass	ad val.	5%	5%
Glassware, chinaware and porcelain- ware:—			
(a) For laboratory use	ad val.	Free	Free
(b) Other, n.e.e.	ad val.	20%	20%

		Minimum Duty	Maximum Duty
		£ s. d.	£ s. d.
Gypsum (plaster of paris): in bulk	<i>ad val.</i>	Free	3%
Kieselguhr: in bulk	<i>ad val.</i>	Free	3%
Lead, white:—			
(a) dry	per 100 lb.	0 6 0	0 7 0
(b) ground in oil:—			
(i) in packages containing 50 lbs. weight or over	per 100 lb.	0 9 0	0 10 0
(ii) in packages containing less than 56 lbs. weight	per 100 lb.	0 10 0	0 11 0
Litharge	—	Free	Free
Manganese sesquioxide: in bulk	—	Free	Free
Oils, essential (natural and synthetic), and perfumed (not being toilet preps.)	<i>ad val.</i>	5%	25%
Oils, lubricating:—			
(a) in bulk	per imp. gallon	0 0 3	0 0 3
(b) not in bulk	<i>ad val.</i>	15%	15%
Oils, mineral:—			
(a) crude	<i>ad val.</i>	15%	20%
(b) illuminating and burning:— s.g. not less than 900 at 60° F. and a flash point of not more than 150° F.	per imp. gallon	0 0 1	0 0 1
(c) transformer and transil	per imp. gallon	0 0 1	0 0 1
(d) other, n.e.c.	<i>ad val.</i>	15%	20%
Oils, tar and creosote: in bulk	—	Free	Free
Oils, vegetable or animal, n.e.c.	<i>ad val.</i>	20%	20%
Paints and colours:—			
(a) ready mixed for use; and artists' colours, enamels, water-paints, distempers, colour-washes, flat oil paints, sheep-marking oils, and petrifying liquids	<i>ad val.</i>	25%	25%
(b) dry pigments, n.e.c.	<i>ad val.</i>	20%	20%
(c) colours, ground in oil, not including white lead; and patent driers	<i>ad val.</i>	20%	20%
Polishes: floor, furniture, leather, metal and similar polishes and dressings, including blacking but not french polish	<i>ad val.</i>	20%	20%
Resin and turpentine:—			
(a) resin (including artificial resin), dry gums and dry shellac: in bulk	<i>ad val.</i>	5%	5%
(b) turpentine (natural and synthetic)	<i>ad val.</i>	20%	20%
Soap, soap powder and extracts	per 100 lb. or <i>ad val.</i> (which ever duty shall be the greater)	0 4 2	0 4 9
Waxes and greases:—			
(a) beeswax	<i>ad val.</i>	15%	20%
(b) other, n.e.c.	<i>ad val.</i>	20%	20%
Acetate of lead	<i>ad val.</i>	Free	3%
Acetic and pyroligneous acids and extracts, essences of vinegar, of any strength, not exceeding six per cent. of acetic acid:—			
(a) in bottles or other vessels of a capacity of not more than one imperial quart	per imp. gallon	0 1 6	0 1 6
(b) in larger vessels	per imp. gallon	0 1 0	0 1 0
and in addition, in either case, for each one per cent. by weight of acetic acid in excess of six per cent.	per 1%	0 0 4	0 0 4
Acids:—			
(a) boric: in bulk	—	Free	Free
(b) oxalic: in bulk	—	Free	Free
(c) other, n.e.c.	<i>ad val.</i>	20%	20%
Alum, aluminium sulphate and aluminoferric: in bulk	—	Free	Free
Ammonia (solution) and anhydrous ammonia, ammon. carbonate, ammon. chloride (sal ammoniac), ammon. nitrate, and ammon. perchlorate: in bulk	<i>ad val.</i>	3%	3%
Animal glands and tissues and their preparations, toxins and antitoxins, lymph, phylacogens, sera and vaccines: for prophylactic or therapeutic use, including adrenalin	—	Free	Free
Barium peroxide: in bulk	<i>ad val.</i>	3%	3%
Borax: in bulk	—	Free	Free
Bromine	—	Free	Free
Calcium:—			
(a) carbonate, oxide, hydroxide, chloride, chlorate, bisulphite, cyanamide and sulphocyanide: in bulk	<i>ad val.</i>	3%	3%
(b) carbide of	per 100 lb.	0 5 0	0 5 0

		Minimum Duty	Maximum Duty
		£ s. d.	£ s. d.
Carbonic acid gas	<i>ad val.</i>	3%	3%
Disinfectants:—			
(a) in bulk, provided they are of a standard approved by the Minister	<i>ad val.</i>	5% plus a suspended duty of 15%	5% plus a suspended duty of 15%
(b) all other	<i>ad val.</i>	15%	15%
Drugs and apothecaryware, n.e.c.	<i>ad val.</i>	20%	20%
Dyes, not being toilet preparations	<i>ad val.</i>	20%	20%
Extracts for perfumery, n.e.c.	<i>ad val.</i>	20%	20%
Fertilisers, in bulk: animal, mineral or vegetable, artificial or natural; and phosphate rock and maltassa	<i>ad val.</i>	25%	25%
Glycerin:—			
(a) crude, in bulk	—	Free	Free
(b) distilled	<i>ad val.</i>	25%	25%
Magnes. carbonate and magnes. sulphate: in bulk	<i>ad val.</i>	3%	3%
Manganese dioxide	—	Free	Free
Medicinal preparations, not elsewhere enumerated, when prepared by any secret or occult art or recommended to the public under any general name or title as specifics for any diseases or affections whatsoever affecting the human or animal bodies	<i>ad val.</i>	25%	25%
Naphthalene: in bulk	<i>ad val.</i>	3%	3%
Nickel sulphate: in bulk	<i>ad val.</i>	Free	3%
Nitrates, except nitrate of ammonium, for manufacturing purposes or for fertilisers: in bulk	—	Free	Free
Pastes and powders containing not less than 30 per cent. of water-soluble phosphoric oxide, in the dry substance, for use in clarifying sugar juice: in bulk	<i>ad val.</i>	Free	3%
Peptone and agar-agar for making bacterial culture media	—	Free	Free
Perchloride of iron: in bulk	<i>ad val.</i>	Free	3%
Perfumery and toilet preparations n.e.c., including powders, washes, pomatums, cosmetics, pastes, dyes, hair oils, but not including tooth powders, tooth pastes and tooth washes	<i>ad val.</i>	40%	40%
Pills, imported in packages not for direct sale to the public	per lb.	1 0 0	1 0 0
Platinum: chloride of	—	Free	Free
Potassium: carbonate, bicarbonate, silicate, bichromate, chlorate, sulphite, bisulphite, metabisulphite, permanganate, cyanide, sulphocyanide (thiocyanate), red and yellow prussiate of, and caustic potash: in bulk	<i>ad val.</i>	Free	3%
Radium compounds	<i>ad val.</i>	Free	Free
Saltpetre: in bulk	<i>ad val.</i>	Free	3%
Sodium: (a) carbonate, including soda crystals (washing soda)	per 100 lb.	0 1 6	0 2 0
(b) bicarbonate, silicate, bichromate, chlorate, permanganate, sulphite, bisulphite, metabisulphite, sulphide, sulphocyanide (thiocyanate), and caustic soda: in bulk	<i>ad val.</i>	Free	3%
Sodium: cyanide of	plus a suspended duty of	0 8 4	0 8 4
Substances for the prevention or destruction of agricultural pests: including sheep and cattle dips and dipping powders, and materials suitable only for dip; substances for the prevention or cure of diseases in plants or trees; sulphate of copper, arsenic, arsenite of soda and arsenate of lead	<i>ad val.</i>	Free	Free
Sulphur: in bulk	<i>ad val.</i>	Free	Free
Sulphurous anhydride	—	Free	Free
Tooth powders, tooth pastes, and tooth washes containing not more than 3 per cent. proof spirit	<i>ad val.</i>	20%	25%
Corkdust, sawdust, husks, or other waste substances, intended and suitable for use only as packing material	—	Free	Free
Corks:—			
(a) Corks and wooden bungs	<i>ad val.</i>	3%	3%
(b) Corkwood, unmanufactured	—	Free	Free
Cardboard boxes and cartons:—			
(a) printed	<i>ad val.</i>	30%	30%
(b) not printed	<i>ad val.</i>	20%	20%
(c) wax cartons (jars) for food products	—	Free	Free
Sanitary paper, sensitised and tracing	<i>ad val.</i>	20%	20%

		Minimum Duty	Maximum Duty
		£ s. d.	£ s. d.
Catalogues and price lists of Union firms and firms holding stocks in South Africa, printed and posted abroad to individuals in South Africa	<i>ad val.</i> or <i>per lb.</i> (which ever duty the greater)	30% 0 0 4	40% 0 0 6
Catalogues and price lists of firms or persons having no established place of business in the Union and no permanent agent holding stocks in South Africa	—	Free	Free
Ambulance materials, hospital furniture, scientific apparatus, surgical and dental instruments..	—	Free	Free
All goods, wares and merchandise, not included under any other heading in the tariff, and not provided for in Class XV	<i>ad val.</i>	20%	20%

Among the materials for industrial purposes, the following articles and substances enumerated in this class (XV) will, notwithstanding anything to the contrary contained in Classes I to XIV, be admitted duty-free on importation, under such conditions and regulations as the Minister may prescribe, if intended for use only in the manufacturing industry mentioned in each instance.

Cattle foods: Concentrates for cattle food manufactured in the Union.

Confectionery and biscuit manufacturing industries: Confectioners' requisites, imported in bulk, namely, golden syrup, cocoa mass paste of slab, desiccated unsweetened coconut, block chocolate, unsweetened, gelatin (animal or vegetable), raw gums, deodorised or hydrogenated refined vegetable fats, and cocoa butter.

Dips, disinfectant and insecticide manufacturing industry: Ferrous and zinc sulphates; linseed, castor and whale oil, fatty acids; turpentine, cresylic acid, green oil, vaporising oil, verpine, iodine and potassium iodide; in bulk, for the manufacture of dips, dipping powders and other substances for the destruction of agricultural pests; methyl salicyl for fly spray; carbolic and naphthalic acid, nitro benzol, crude pine oil and crude terebine oil.

Mining industry:—

(1) Eucalyptus, pine and other oils for use in connection with the extraction of gold and other minerals by the flotation process.

(2) Sodium sulphide for use in the concentration of ore by the flotation process.

(3) Corduroy for use as battery cloth.

Motor fuel manufacturing industry: Substances to be used as denaturants; motor spirit for mixing with locally produced alcohol for the purpose of producing power alcohol.

Oil expressing industry: Oil seeds and nuts, edible and non-edible, in bulk.

Paints, varnish, polish and putty manufacturing industries: Materials in bulk, for the manufacture of paints, varnish, and polish and putty for re-sale—namely, leads, white and red, dry or ground in oil, and lithopone, linseed oil, boiled or raw, linsidol and similar substitutes for linseed oil, turpentine (natural or synthetic), waxes for polish making and sulphate of iron for colouring distempers.

Paper making industry: Resin size: in bulk.

Rubber manufacturing industry: For the manufacture of rubber and rubber goods:—

(a) Pigments, filling agents and vulcanising accelerators, viz., zinc oxide (zinc white), zinc sulphide, zinc sulphate, antimony sulphide (yellow and red), alumina, magnesium carbonate, calcined magnesia, lithopone (mixture of zinc sulphide and barium sulphate or of zinc white and barium sulphate), vegetable black, carbon black, Prussian blue, white and red lead, ebonite powder, and emarex (natural pitch); in bulk.

(b) Rubber substitutes, viz., vulcanised vegetable oils; in bulk.

(c) Rubber compounding oils, viz., aniline oil, resin oil, and vaseline; in bulk.

(d) Rubber solvents, viz., benzene (benzol), coal-tar naphtha, westrosol, westron, carbon disulphide; in bulk.

(e) Vulcanising agents, viz., sulphur chloride, in jars of not less than one imperial gallon.

(f) Canvas in the piece and mercury sheeting.

(g) Yarns, ammonia and linseed oil (boiled).

Soap, candle and grease making industry: Soya bean oil, citronella oil, mirbane oil, castor oil, raw linseed oil and crude oil; paraffin wax, stearine wax and stearine grease.

Textile industry:—Acetic and formic acid.

Tanning industry: Substances for preparing or bating hides and skins, and for tanning and finishing leather; including formic acid, acetic acid, hyposulphite of soda, and tanners' white soap.

Woolwashing: Soap and like substances.

Materials for general industrial purposes:—

(1) Dyes, colour preparations, spirituous or non-spirituous, and glazes; used in the manufacture or preparation of articles for sale.

(2) Oils, in bulk: palm, palm kernel, coconut, cotton seed, mafurra, resin, whale and sea elephant.

(3) Oxides, in bulk, namely: cobalt, copper, iron, tin, and zinc and pigments (dry).

(4) Solvent naphtha, sealite and similar fluxes for use by manufacturers in the sealing of containers.

(5) Molasses, in bulk.

(6) Resin, including artificial resin, dry gums, dry shellac; in bulk.

South African News

From "C. & D." Correspondents.

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

KENYA PHARMACY.—Mr. Arthur A. White, Nairobi, Kenya Colony, writing in regard to the article on Kenya Pharmacy in the *C. & D.*, April 18, p. 571, states that the business of A. J. Ely, Ltd. (in liquidation) has been absorbed into his business. He trades under the name Arthur A. White, Ltd., and is the managing director of the company.

VETERINARY REMEDIES REGULATION.—Judging by the quarterly report of the secretary of the Associated Pharmaceutical Societies of South Africa, pharmacists in the Peninsular have their quota of trouble with Government departments, just as in England. For instance, the Stock Remedies Regulations (which were printed in full in the *C. & D.*, April 18, p. 567) have given rise to considerable trouble, and the matter has been taken up by the Associated Pharmaceutical Societies with the Government, who, in the course of their reply, state:—

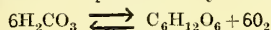
the purpose of the regulation is the protection of stock owners against "misrepresentation," and although the regulations may at first sight appear to inflict hardship upon vendors of useful proprietary articles, reliable manufacturers will find that in the long run they will benefit by them. Similar regulations have been in force for stock dips for several years, and no difficulties have been experienced. Indeed, the more progressive manufacturers welcome the regulation as enabling them to show up their products in the most favourable competitive light, and do not complain that their commercial interests have been adversely affected. It should be borne in mind that no information is demanded which could not be ascertained by analyses of the product concerned, either by Government analysts or by trade competitors. Many vendors are under the impression that they possess valuable trade secrets until it is demonstrated to them that their information is already common knowledge. . . . Those who sell *bona-fide* preparations have nothing to fear from the administration of the regulations, and the department would endeavour to be helpful to vendors of such products. Providing formal applications for registration are made, the department would deal in a sympathetic spirit with any difficulties that may be experienced, and would give assistance to firms registering, not only in meeting the requirements of the regulations, but also in safeguarding, as far as possible, genuine proprietary secrets. All intermediate correspondence with firms on these points could be treated as confidential, but the statements of composition shown in the forms of application as finally accepted for registration would, of course, become public.

The British Association

THE annual meeting of the British Association for the Advancement of Science was held at Southampton from August 26 to September 2. Professor Horace Lamb, F.R.S., President, delivered the inaugural address, which is summarised in an editorial article in this issue. The following are abstracts of some of the papers which may interest our readers:—

Further Investigation on the Photosynthesis of Naturally Occurring Compounds

In the paper presented by Professor E. C. C. Baly, F.R.S., Mr. F. M. Johnson, Mr. H. G. Littler, and Miss Edith Morrison, the authors stated that the discrepancies in the earlier results obtained on the conversion of carbonic acid into formaldehyde by the action of light in two stages, the first being the production of formaldehyde, which, under suitable conditions polymerises into reducing sugars, were due to the existence of a photostationary state. It had been now established that under the action of light, the carbonic acid is converted into active formaldehyde which at once polymerises into carbohydrates. In the complete absence of impurities, a photostationary state is set up which can be represented by the equation



The removal of the oxygen causes the reaction to proceed from left to right. In the living plant the oxygen is removed from the sphere of action by the plant pigments. Investigation has also been made of the compounds formed by the polymerisation of the active formaldehyde, and it has been found that the first products are hexose sugars. The phenomenon of the photostationary state seems also to exist in the photosynthesis of nitrogen compounds with activated formaldehyde, reactions in which again oxygen is evolved. This is of some importance, because the removal of the oxygen is necessary for the photosynthesis to proceed. The very remarkable influence of the hydrogen ion concentration in the photosynthetic process has been demonstrated, and it appears that this is one of the most important factors.

In the discussion in the botanical section on

Adaptive Characters

Professor F. O. Bower, F.R.S., remarked that the expression "adaptive" is often applied loosely for any character to which a reasonably probable use can be ascribed. Causality in relation to that use is then liable to be assumed, without any evidence being adduced to show that the character actually originated in relation to the conditions which it may effectively meet. Few of those who lightly use the word have ever adduced evidence that the character really is adaptive in the evolutionary sense in any specific case; that is, that the development, individual or racial, originated in accommodation to circumstances. On the other hand, if the character were actually adaptive in this sense, it might be expected that, in the absence of the causal condition, the character should be modified, or even disappear. But it cannot always be presumed that a feature held as adaptive must necessarily disappear: provided that it be not harmful it may persist, even though its primary cause is absent, for it may have passed into the category of inherited characters. Thus we may hold it as possible that fluctuating characters, arising first as consequences of immediate accommodation, may become permanently fixed. In the comparative study of ferns, checked by reference to the related fossils, it is believed that evidence has been obtained of the secular inheritance of characters in the first instance acquired and adaptive; and that in the course of evolution, extending from the palaeozoic period to the present day, those characters have become permanently fixed. The best instance is in the adoption of a protective superficial position of the sorus, though comparative evidence of ferns, fossil and living, indicates that the distant or marginal position was the original one. Other examples are seen in the adjustment of the vascular tissues in relation to increasing size and in the absence of secondary thickening, so as to maintain a suitable proportion of surface to bulk. Such adjustments have frequently become hereditary.

An interpretation of structural features of the plant

as adaptive, Professor J. Priestley maintained, should always rest upon definite experimental evidence that the structural features concerned perform the functions assigned to them. The result of such experimental examination has recently been illustrated in the study of various epidermal structures which are interpreted on theoretical grounds as devices for controlling transpiration. Interpretation as an adaptive character still leaves the structural feature in question open to elucidation upon the lines of causal anatomy.

The Influence of Surfaces in Chemical Reactions

Although adsorption at surfaces may result in the formation of multimolecular films, the adsorption of the first layer is attended with a much greater decrease in free energy, and it is in this film that chemical reaction at surfaces takes place. Dr. E. K. Rideal, in his communication, pointed out that we find accumulated evidence for the conception of orientation and distortion of the molecules in this primary layer; evidence for the persistence of such orientation, but to a less marked extent, in the multimolecular secondary layer exists. Again, only a small fraction of the surface is catalytically active. Both by the method of calculation of the number of effective impacts as well as by the method of selective poisoning, the extent of the active surface can be determined. In this way it has been shown that only 0.01 per cent. of a carefully prepared active nickel surface is effective in promoting the combination of ethylene and hydrogen. About 0.05 per cent. of the surface of active sugar charcoal is autoxidisable, and 40 per cent. can catalyse the oxidation of oxalic acid. Great improvements in catalytic efficiency are thus to be anticipated. The specific effects of promoters can be determined in this way; thus, the active area of iron-activated blood charcoal is over twenty times as active as the active area of sugar charcoal in promoting the oxidation of oxalic acid, although the activity per gram is fifteen and per sq. cm. is only some three times as great. The activation by alternate oxidation and reduction can be ascribed to an extension of the space lattice of the metal. More information is required on the mechanism of activation; our present evidence is not sufficient to decide between two hypotheses. In one we can regard every molecule which strikes the active patch with a kinetic energy in excess of a critical value as undergoing reaction; in the other, we may regard adsorption as taking place as a primary action which is followed by activation, by collision, or possibly by collision and by radiation.

The Supply of Iron in Nutrient Solutions

An investigation by Dr. MacGregor Skene on the factors concerned in the iron supply in water cultures of oats showed that chlorophyll formation was best in plants to which iron was supplied as citrate; chloride was less efficient and phosphate least so. The difference was, however, only marked in the early stages of growth. Dry weight was equal in the citrate and chloride plants and lower in those supplied with phosphate. Differences in the solubilities of the three salts do not explain the results. Absorption by the cell wall and the presence of insoluble compounds in contact with the roots are of importance in maintaining the iron supply.

(To be continued)

FROM the Poppy Day (1924) Report, just issued (145 Piccadilly, London, W.1), it appears that the sum of £350,000 was collected on November 11, 1924, in aid of Earl Haig's British Legion Appeal Fund, for which increased support is asked.

LEAGUE OF EX-SERVICE PHARMACISTS.—Captain H. A. Hill, secretary of the League of Ex-Service Pharmacists, writes: "Local groups in each Parliamentary constituency are asked to communicate with their members of Parliament without further delay with a view to obtaining an interview. The object of this interview is to impress upon members of Parliament the urgent need for the Government to adopt the recommendations of the War Office Committee, and to obtain promises of support when the question is raised in Parliament during the autumn session. Results of interviews should be forwarded to the Secretary of the League, 17 Bloomsbury Square, W.C.1."

Modern Physico-Chemistry in its Pharmaceutical Applications

By W. A. Whatmough

XVIII.—Spectral Lines and Formulæ

THE present article relating to spectral formulæ provide an excellent example of the fact mentioned at the outset in article II regarding the difficulty of attaching a precise meaning to mathematical language (i.e., mathematical formulæ or expressions) describing physical properties. The absolutism of mathematical definitions fails when it is attempted to apply these with rigorous exactitude to natural phenomena. Whereas simple formulæ are sufficiently accurate as "approximations," any endeavour to devise expressions without limitations inevitably results in cumbersome equations involving several "assumptions"

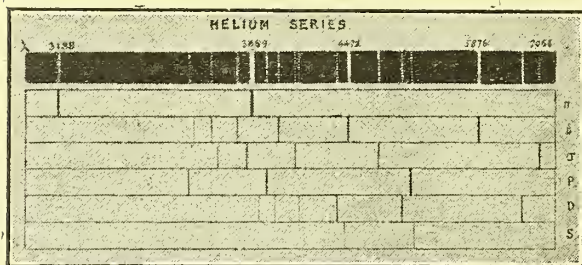


FIG. 15.—Spectral analysis of lines of Helium series (after Professor H. Dingle).

to explain variation of constants, so that the student is left wondering wherein lies the accuracy and truth for which science is ever seeking. It has long been known that spectral lines of elements could be arranged in series derived by *differences in the terms of a simple mathematical expression*. Thus Balmer in 1885 showed that the series of lines in the visible optical spectrum of hydrogen (see Fig. 14, article XVII) could be represented by the differences between the terms of his famous formula (1) which can be written as:—

$$(1) \nu = R \left(\frac{1}{2^2} - \frac{1}{m^2} \right),$$

where m is an integral or whole number greater than 2 (i.e., 3, 4, 5, etc.) and R is the Rydberg constant (see below). In general the various spectral lines of hydrogen and hydrogenic atoms (see below) are obtained by *differences (between two variable terms)* which are included in types of frequency:—

$$(2) \nu = \frac{Z^2 R}{n^2},$$

where Z is the atomic number (or positive nuclear charge) of an atom, R is the Rydberg constant, and n is any whole number.

The more general expression including this constant was evolved by Rydberg and published in 1890, but includes also an additional fractional constant ϕ , viz.:—

$$(3) \nu = \frac{Z^2 R}{(n + \phi)^2}$$

This empirical formula for *differences* between variable spectral terms gives, with a good degree of approximation, the lines in the spectra of more complicated series of spectra. Again, n is any integer from 1 upwards, but ϕ the fractional addition (or "constant") is calculated

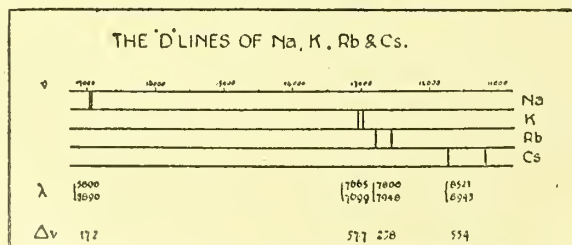


FIG. 16.—Comparison of "D" spectral lines of Alkali Elements (after Professor H. Dingle).

from the observed lines, and is different for each series containing lines designated *arbitrarily* as Sharp (S), Principal (P), Diffuse (D), and Fundamental (F), etc. Fig. 15 shows an analysis of the singlet (P.D.S.) and doublet lines (π , δ , σ) in the spectrum of helium, a process calling for much patience and ingenuity. (See footnote.)

The total number of lines in each spectrum is very large and may consist of series of singlets or multiplets (lines

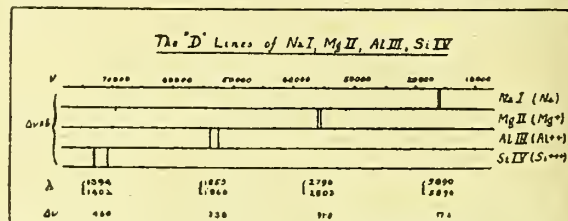


FIG. 17.—Comparison of "D" spectral lines of hydrogenic type atoms, both neutral and ionised (after Professor H. Dingle).

resolvable into two or more fine lines). Again, the multiplicity of lines changes according to the chemical type of atom, but this is the same for elements of each particular chemical group. Fig. 16 shows the "D" lines of the alkali elements (sodium, potassium, rubidium and calcium) in which the separation of the two lines increases with increasing atomic number, but frequencies decrease.

The Rydberg constant, usually denoted by N or R , has become of especial importance in Bohr's theory of atomic structure as a means of assigning the principal quantum number (n), the fraction ϕ also entering into consideration of quantum "defect," by which the "effective" quantum number differs from the theoretical whole number. Hydrogenic atoms or atoms with only one external electron possess spectral series, expressed by a Balmer type formula (4):—

$$(4) \nu = Z^2 R \left(\frac{1}{n'^2} - \frac{1}{n''^2} \right),$$

where n'' and n' are again whole numbers, and Z represents the atomic number. Note that a hydrogenic atom does not refer to hydrogen but to a type of atom similar to hydrogen in which a single electron rotates with or around a central core or nucleus. This may be neutral hydrogen or singly ionised helium or other atom stripped of chemical or valency electrons until only one remains in the outermost shell. Thus Fig. 17 shows the "D" lines of hydrogenic atoms of neutral sodium and stripped atoms derived by ionisation of magnesium, aluminium and silicon, the latter being singly, doubly and trebly ionised (or lacking one, two and three electrons respectively). In comparison with the alkali elements in Fig. 16, it will be seen that in hydrogenic type atoms the spectral frequencies increase (instead of decrease) with nuclear charge, and that the spacings and separations of the lines are more regular. Thus the spectroscopist reveals types of atoms unknown chemically because they possess only a transient existence of millionths of a second in their transition to the normal (or neutral) chemical atom.

* The first (or 1S) term of the sharp group $\left[\frac{R}{(1+S)^2} \right]$ of spectral terms corresponds to the condition of least energy of an electron orbit and is regarded as being the normal or unstimulated condition of an atom. The initial terms of other groups representing more activated atomic states begin with an integer larger than 1. Thus in the complete set of S terms, S has all values from 1 upwards, while P terms start from 2, D from 3, and F from 4 up. The frequencies of the series of lines are obtained by taking *differences*, as follows:—

$$\begin{aligned} \text{Principal series } \nu P &= (1S) - (mP) \\ \text{Diffuse series } \nu D &= (2P) - (mD) \\ \text{Sharp series } \nu S &= (2P) - (mS) \\ \text{Fundamental series } \nu F &= (3D) - (mF) \end{aligned}$$

The variable integer (m) is always given a value at least one higher than the fixed integer in the first term of a series formula. It is also customary to use different kinds of letters; Capitals (P, S, D, F) being used for singlet systems; Greek letters (π , δ , σ , ϕ) for doublets, and small italics (*p.d.s.f.*) for triplets. Numerals indicate whether a term belongs to the first, second or other set of a series, so that spectral terms can be abbreviated as 1S, 3d, etc. It is widely accepted that the principal quantum number (n) determines the corresponding or current number of a series term (1S is defined by $n = 1$, and 3d by $n = 3$). The subordinate or azimuthal quantum number (k) indicates the type of series to which a term belongs ($k = 1$ indicating a S, σ , or s term, and $k = 3$, a D, δ , or d term). So that the symbols 1_1 and 3_3 are the quantum symbols (nk) for 1S and 3d terms of spectroscopy.

Personalities

DR. T. VINCENT DICKINSON has been elected Master of the Society of Apothecaries of London.

MR. W. ADAMSON, chemist and druggist, Southall, has been appointed a member of the executive of the local chamber of commerce, of the ratepayers' association, and a Vice-President of the Conservative Association. Mr. Adamson also represents the chamber of commerce on the Southall-Norwood Hospital organising committee.

PUBLICITY has been given in the Press, during the past few days, to the fact that Mr. Thomas Brown, chemist and druggist, Victoria Street, Grimsby, is still carrying on business at the age of ninety-two, and is in his shop every day. This, manifestly, is a record seldom equalled, and Mr. Brown's younger colleagues will wish him a continuance of vigorous health.

MR. FRANCIS R. L. NEWBURY (Francis Newbery & Sons, Ltd., London, E.C.) has just returned with his wife from a three months' tour in the United States and Canada. Mr. Francis Newbery had the pleasure of meeting Dr. Stanbury, Mr. Charles Tinling, and others. The trip was taken in the first place on a delegation mission from British Rotary to the Cleveland Rotary Convention. After that, business was undertaken, and many old friends were visited. Mr. Francis Newbery gave a very humorous contribution to the "Carmania" concert on the return journey. Entitled "The Great International Anglo-American Fur Trading Corporation, Ltd.," it was at first taken seriously; but as the comical side became more evident it created roars of laughter.

Births

Notices for insertion in this column must be properly authenticated.

KAY.—At 25 George's Avenue, Ayr, on August 30, the wife of David Watt Kay, chemist and druggist, of a son.

Marriages

PASCO—MALONE.—At St. Michael's Church, Stoke Newington, London, N., on August 31, G. Sidney Pasco, chemist and druggist, 57 Hackney Road, E.2, to Ethel Malone.

SILLITOE—JOLLIFFE.—At Walton Church, Liverpool, on August 26, Thomas Sillitoe, M.P.S., 20 Carter Terrace, Greenheys, Manchester, to Beryl May Jolliffe, Evered Avenue, Aintree, Liverpool.

Deaths

BATEMAN.—At 21 Station Road, Watford, on August 26, Mr. John Montague Bateman, Ph.C., aged seventy-seven. Mr. Bateman, who was a native of Canterbury, passed the Major examination in 1871. In 1874 he was appointed pharmacist to the Khedive at Cairo, with whom he remained until the death of the Egyptian ruler in 1895. Mr. Bateman eventually returned to England and settled at Watford. He was created Chevalier of the Order of the Crown of Italy in 1895, and in 1890 he was made a Bey of the Turkish Empire and Commander of the Order of the Medjedieh.

CURRY.—On August 26, Mr. George Curry, chemist and druggist, Dover, aged fifty. Mr. Curry expired suddenly while swimming in a race as captain of the Dover Swimming Club. He was a native of Coldstream, and after some years' experience as a ship's dispenser went to Dover as a member of the staff of Timothy White Co., Ltd., subsequently commencing business for himself in Cherry Tree Avenue. Mr. Curry was a Freemason, and a member of the East Kent Scottish Society. A local medical man who gave evidence at the inquest said of Mr. Curry: "I am certain he will be very much missed in this part of the town, as he was very kind and courteous to all his customers—panel patients

and otherwise. I shall miss him tremendously. I know because I used to be in and out of his shop frequently. A very nice man indeed, and most kind-hearted to the poor."

HARTLEY.—At 65 Whitegate Drive, Blackpool, on August 29, Mr. Allan Hartley, M.P.S., beloved husband of Ada Hartley. Mr. Hartley passed the Qualifying examination in 1901.

HUSKISSON.—At 45 Cambridge Gardens, London, W.10, on August 25, Elizabeth Frances Dorothy, widow of the late Mr. William Huskisson, manufacturing chemist, aged eighty-five. An interesting link with the past is severed by the death of Mrs. Huskisson, her late husband's firm (now absorbed in Castle Huskisson, Ltd.), dating back, through its predecessors, to the seventeenth century. Its history was given in THE CHEMIST AND DRUGGIST, II, 1913, p. 147.

MIDDLETON.—At Matlock Bath, on August 23, of pneumonia, Mr. George Middleton, chemist and druggist. Mr. Middleton, who qualified in 1908, was the representative for Lancashire of Allen & Hanburys, Ltd., London, E.2, and was held in the highest esteem by his customers. His cheery presence and genial humour endeared him to a wide circle of friends, and his passing makes a blank it will not be easy to fill. He leaves a widow and two sons.

WALTON.—On August 31, Mr. Edward Bridges Walton, Ph.C., Market Place, Richmond, Yorkshire, aged seventy-four. Mr. Walton was a native of Richmond, and succeeded his father in a business which was founded in 1802. He was secretary of the Naturalists' Field Club and fond of cycling. The business will be continued by his nephew, Mr. F. E. Walton, chemist and druggist.

Wills

MR. HENRY TRENTHAM MAW, M.A., M.D., The Old House, Westcott, Surrey, chairman of S. Maw, Son & Sons, Ltd., Aldersgate Street, London, E.C., a Liveryman of the Spectacle Makers' Company and hon. treasurer of the National Union of Manufacturers, who died on April 23, left unsettled property of the value of £34,736, with net personalty £26,566. Probate of the will has been granted to Patrick Charles Maw (son), Frederick Trentham Maw (brother), and Charles Frederick Maw, Benthall, Merstham. The testator gives £200 to the trustees of the Appleton Reading Room, Hope Cove, South Devon, "as a token of affection for the fishermen amongst whom I have spent so many happy holidays"; £100 to the trustees of Holy Trinity Church, Westcott, in trust for presenting fourteen boys of the choir with a Christmas present of 2s. 6d. and the balance towards the upkeep of the choir; £500 to George Waymark, if still in the service of the firm; £10 for each year of service to his servants who have been in his employ for five years; the Old House and other property at Westcott and Devon to his wife during widowhood, and then for his son Patrick; £100 each to the executors; £500 each to his niece Cynthia and to the children of his brother Frederick; £250 to Michaela Hufton Windust; £100 each to Edith Griffin, Ethel Beatrice Sawyer, John K. Maw, and Winifred Patricia Frewes; £250 to Winifred Frewes; and £16,000 in trust for his daughter. Having made provision for his wife by settlement, he leaves the residue of the property to his son Patrick.

Business Changes

BOOTS, LTD., have opened a branch at 88 Central Drive, Blackpool.

MR. P. R. BEMROSE, chemist and druggist, has opened a business at Bloomfield Road, Blackpool.

TETMAL, LTD., headache powder manufacturers, have opened offices and warehouses at 45 Farringdon Street, London, E.C.4.

MARTYN'S STORES, LTD., chemists, Wolverhampton, have opened another branch at Bushbury, under the managership of Mr. N. F. Hollyoak, chemist and druggist.

Trade Notes

SYNTHETIC CAMPHOR produced by "La Industrial Resinera Ruth, S.A.," Apartado 99, Santander, Spain, is advertised in this issue.

BRITISH MONOMARKS, LTD., 19 Abingdon Street, Westminster, London, S.W.1, give particulars of the Monomark system in their advertisement.

"THE CHRISTIAN HERALD," 6 Tudor Street, London, E.C.4, calls attention, on another page of this issue, to its advantages as an advertising medium.

BRITISH DYESTUFFS CORPORATION, LTD., 70 Spring Gardens, Manchester, are sending out a new price list of organic fine chemicals, which cancels previously issued lists.

"VETERINARY COUNTER PRACTICE."—A new reprint of the seventh edition is now ready; price 7s. 6d. (8s., post free), from the Offices of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.4.

TOILET BRUSHES.—Samples of the toilet brushes offered by Munro, McLaren & Sutherland, 17 Cadogan Street, Glasgow, will be sent on application. A special discount is allowed to purchasers of three-dozen lots.

CELMO.—Celmo (for complaints of a rheumatic nature) and Celmetz (for ailments affecting the digestion) are referred to, with prices, in the advertisement of Celmo, Ltd., 1 Carlton Street, Regent Street, London, S.W.1, in this issue.

SCURF COMB.—A new type of scurf comb has been put on the market by Sacker's Hygienic Comb and Toilet Supply Co., 13 Blackstock Road, London, N.14. Known as the "Sannakleen," it is made of metal, and two grades are available.

OFOME.—The Ofome Co., Ltd., 16A Newman Street, London, W.1, are introducing a new preparation (packed in collapsible tubes) for cleansing hands, clothes, paint, brushes and other articles. Showcards and full particulars will be supplied on application.

PHYLOSAN.—The sole distributors of Phyllosan for the British Empire are Fassett & Johnson, Ltd., 89 Clerkenwell Road, London, E.C.1. Elsewhere in this issue attention is called to an advertising campaign which is to be undertaken among the medical profession.

SCIENTIFIC ILLUMINATION. — Economy combined with efficiency in lighting is the note struck by an advertisement in this issue of Holophane, Ltd., 16 Elverton Street, Vincent Square, London, S.W.1. A booklet, advice and suggestions as to how to avoid wasting light will be given free of charge.

PRICE LIST.—R. H. Heward & Co., surgical appliance manufacturers, Crown Road Works, Twickenham, have issued a revised trade price list, which will be forwarded on application. Comprising 127 pages, and profusely illustrated, the new list will be useful to chemists. Full instructions are given regarding measurements; the list is also supplied without prices. Messrs. Heward are the sole agents for crêpe velpéau bandages and binders.

COTY COMPACT POWDERS. — Coty (England), Ltd., Walmar House, 293 Regent Street, London, W.1, remind the trade, on another page of this issue, that on October 1 the retail price of Coty Compact Powders (062 Series) is to be reduced. During the present month this series will be invoiced to the trade at the new rate, with an obvious advantage to chemists who make a point of promoting sales at the existing price. Showcards and price tickets are sent on request.

DIMOL.—On another page will be found an announcement of the appointment of Sangers, 258 Euston Road, London, N.W.1, as distributing agents, from October 1, for Dimol, the intestinal disinfectant originated by Mr. J. T. Ainslie Walker (joint author of the Rideal-Walker test), and manufactured by Dimol Laboratories, Ltd., 40 Ludgate Hill, E.C.4. Dimol is not only non-toxic, but in a bacteriological test has been found to possess thirty-five times the bactericidal power of phenol and seventy times that of salol. Evidence is accumulating concerning the remarkable results obtained with it in many diseases related to intestinal troubles.



THE CHEMIST AND DRUGGIST

RETAIL PRICE LIST

based on definite costing principles

THE changes for August are all non-index drugs in which the turnover is small. A slight adjustment of figures gives the index for drugs as 149.6, against 156.2 last year. The index for surgical dressings is unchanged at 228.8, against 250.3 for the corresponding month last year. The following alterations are in addition to those given in the *C. & D.*, August 1, p. 155, and enable chemists to revise the quarterly issue of the Retail Price List up to September 1:—

	Cost		Selling Price (solid or liquid)					
	1 lb. or as stated		16 oz.	4 oz.	1 oz.	1 dr.	Gr. or ʒ	
Agar-agar, shredded ..	9 0	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	
Agar-agar, pulv. ..	12 0	—	4 0	1 1	—	—	—	
Cocain. .. B, F dr.	9 0	—	5 2	1 5	—	—	—	
Cocain. hydrobrom.	—	—	—	—	16 0	0 8	—	
Cocain. hyd. B, F dr.	9 0	—	—	—	16 0	0 8	—	
Cocain. nit. B, F dr.	7 8	—	—	—	13 6	0 7	—	
Cocain. salicyl. B, F dr.	9 0	—	—	—	16 0	0 8	—	
Cocain. sulph. B, F dr.	9 0	—	—	—	16 0	0 8	—	
Glyc. belled. 50 per cent. .. B	6 0	12 0	3 9	1 0	0 2	—	—	
Inf. lup. conc. ..	4 2	—	2 0	0 8	0 1½	—	—	
Manna elect. nov. ..	7 6	—	3 3	0 11	0 2	—	—	
Menthol .. oz.	5 6	—	—	9 7	1 7	0 7*	—	
Ol. anisi stellat. ..	5 8	—	2 6	0 8	0 1½	—	—	
Ol. chenopodii .. oz.	3 3	—	—	5 7	1 0	—	—	
Ol. limonis ..	9 0	—	4 0	1 1	0 2	—	—	
Ol. limonis (Messina)	8 0	—	3 5	0 11	0 2	—	—	
Ol. menth. pip. Jap. (dement)	33 0	—	14 0	3 9	—	—	—	
Ol. menth. vir. exot. oz.	4 6	—	—	7 6	1 4	—	—	
Podoph. resin. oz.	2 6	—	—	4 5	0 9	—	—	
Potass. permang. ..	1 3	1 11	0 7	0 2	—	—	—	
Pulv. conf. arom. ..	12 6	—	5 5	1 5	0 3	—	—	
Saccharin. 550 .. oz.	6 0	—	—	—	1 9	0 1	—	
Saccharin. sol. 550 .. oz.	5 6	—	—	—	1 8	0 1	—	
Santonin. .. dr.	9 6	—	—	—	16 8	0 4	—	
Ung. picis carb. co. ..	2 6	3 9	1 2	0 5	—	—	—	

Tabellæ

	Cost		Selling Price (in containers)			
	per 1,000		100	50	25	
Bism. carb. ..	15 0	s. d.	3 6	2 0	1 2	
Bism. carb. (2½), sod. bic. (2½) ..	10 3	s. d.	2 6	1 6	0 11	
Bism. carb. (2), sod. bic. (1½), zing. (½) rhei (1) ..	10 0	s. d.	2 6	1 6	0 11	
Bism. carb. (2), pepsin (1), carb. lig. (2) ..	10 3	s. d.	2 6	1 6	0 11	
Bism. salicyl. ..	13 6	s. d.	3 2	1 10	1 1	
Bism. subnit. ..	14 6	s. d.	3 4	2 0	1 2	

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

T/268. Auricones	F/19. Mannose (about 4 lb. for export)
W/318. Dixon's wasp destroyer	C/29. "Peter Pan" brush for bobbed hair (in case)
H/208. Fleuric (powder for frosting gold or brass)	M/248. Phenophen
M/268. Jeanco non-inflammable hair-waving combs	S/268. Vanity bag, exact shape of gold ball (makers)
S/318. Lett snuff cure for rabbits	D/29. Vocolax
D/248. Linthorpe castor oil	

Observations and Reflections

By Xrayser II.

The Word "Adulteration"

is, as one of your correspondents says, very unfortunately used of erroneous dispensing; and the popular impression that it necessarily implies the spurious admixture of false or counterfeit ingredients, though wrong, is quite natural, as the word has usually that signification. It includes, however, more than that. Anything of debased quality may be said to be adulterated, but it is hardly fair to use a word which is so commonly employed to indicate conscious corruption. Errors in dispensing are very rarely due to anything worse than carelessness, which, of course, is bad enough; and instead of railing against the prosecution of faulty dispensing, as is sometimes done, we ought to welcome the exposure of seriously faulty dispensing, whether for insured patients or not. Such cases have been rare hitherto, and they will be rarer still in future in consequence of the few exposures that have taken place.

Your Interesting Article

on "Comparisons in Dispensing" has sent my thoughts back to the time referred to by your contributor and further. In my young days 6-ounce and 8-ounce mixtures were, I should say, the rule in prescribing for adults, except in cases of cough (cough mixtures were usually styled "drops," as was anything of which the dose was a teaspoonful or under); and the dose was usually one or two tablespoonfuls, chiefly the latter, I think, as regards 8-ounce mixtures. When I was an assistant in a large market town (where our dispensing was mostly for country people and on a market day), the governor, on receiving a prescription from a customer, would look it over and say, "Ah, an 8-ounce mixture, two tablespoonfuls for a dose; you'll need three bottles to last you the week," and hand me over the prescription, without protest or comment from the customer.

In those Days

the "Selecta é Præscriptis" was in pretty frequent request; but we had another, and I think an older book, namely, Leach's "Introduction to the London Pharmacopœia," which the chemist was supposed to be sufficiently familiar with (I don't say he was) to serve him as a guide in the interpretation of prescriptions. We used a translation of the P.L., of course; but Leach's book had an appendix of words commonly met with in prescriptions and a synopsis of the Latin grammar containing all that was needed, being, as the author says, sufficient to give such a grounding in the language as not the physician only but "the apprentice, whether to the apothecary or chemist," should "make the first object of his concern." The book had also a vocabulary of all the words in the Latin P.L., with directions for parsing and a syntactical analysis of the Pharmacopœia; I wonder how many chemists know it to-day. I have been looking through my copy, and have been amazed at what I have forgotten (if I ever really knew it). There are eleven double-columned pages of words once common in prescriptions.

Do Chemists get their Share

of the business in horticultural requisites? There must be an enormous consumption by amateur gardeners of such things as worm-killers, grass fertilisers, lime and other composts, daisy- and other weed-killers, insect-sprays, and so forth. Why should not a larger number of chemists produce and sell these? Much of the business is captured by firms which advertise preparations of a more or less secret nature in the gardening papers. Oilmen and other shopkeepers secure a fair share of the trade in sulphate of ammonia, nitrate of soda, and other chemicals which enter into the composition of the aforesaid proprietary preparations, their customers for the chemicals being people who have taken the trouble to find out what it is in the proprietary preparations which does the trick. So far as my experience goes, chemists generally do not try to

get their share of this business, and I think it is a pity this should be so.

Let us Consider

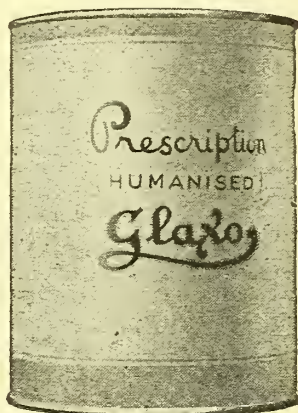
what an amateur gardener with a small grass plot or lawn may spend upon it in the course of a year. From now to the end of November, and again during April and May, he finds it desirable to get rid of the worms which tend to render the surface unsightly. For a hundred square yards of lawn this will involve an outlay of, say, ten shillings each time the worm-killer is applied. Then the grass requires the application of a suitable fertiliser, to compensate for the continual removal of lawn mowings. This will cost at least five shillings. Extermination of daisies and other shallow-rooted weeds will cost perhaps five shillings more for the necessary material, and a top-dressing of prepared lawn sand may cost another ten shillings. A total expenditure of two pounds can thus be incurred during the year, and there is much besides to tempt the enthusiastic gardener who is anxious about the well-being of his trees, shrubs, flowers, and vegetables. With the well-known disposition of people to come to the chemist for advice of the most varied character, there should be no special difficulty, for country and suburban chemists at least, in building up a successful horticultural business. Application of a knowledge of botany will come as a matter of course, and a study of garden pests and their ways should lead to a profitable trade in preventives and remedies.

Not Many Chemists

are content to sell any proprietary preparation which may pass through their hands without being sufficiently curious to endeavour to find out something about its composition. It has surprised me at times to realise what pains are taken by some chemists to ascertain the composition of any new preparation placed upon the market. This is not done out of simple curiosity, but largely in order that the preparation may be imitated if it should seem worth while. We appear to have an instinctive feeling that no proprietary medicine can be produced but what we can match from ingredients in our pharmacies, and some think it pays them to prepare and offer for sale substitutes which it cannot really be profitable for them to produce.

Invalid Foods,

the theme of lectures reported from time to time in your columns, remind one of the antiquity of dietetics as a branch of medicine. Medicine was anciently divided into three parts, a division that has been traced, though erroneously, to Aristotle, who says that the "goods" of the body are chiefly three, health, strength, and beauty. From this it has been inferred that medicine's three parts are therapeutics, hygiene, and gymnastics. Aristotle, however, does not speak of medicine in the passage referred to. It was Galen who made the division, and his "three parts" were pharmacy (by which I suppose he meant therapeutics), surgery, and dietetics. Linacre adopted this division. He published two volumes of translations of Galen, "De Sanitate Tuenda" (1517), and "De Methode Medendi" (1519), and in the dedication of the latter he says, addressing King Henry VIII: "Since of my lucubrations I have already dedicated to you two parts of medicine I could not allow my duty to you to halt for want of the third part thereof." This has puzzled some subsequent writers: "Either the work," says Dr. Frank Payne, in the D.N.B., "never got beyond the stage of manuscript, or the printed edition has been entirely lost." As a matter of fact, however, the three parts are all included in the two works named; for Claudius Chevalonius, the printer of an edition of "De Methode Medendi" in Paris, in 1526, requesting a prayer for the soul of Linacre, lately deceased, says:—"For these twenty books in which the three principal parts of medicine are embraced, Candid Reader, whoever thou art that hast drawn profit from them, pray well for Linacre, the Englishman, who has translated them with the utmost possible fidelity." I am indebted for this note to an article in "Notes and Queries," for August 9, 1893. I have given the names of Galen's treatises as they are given by my authority.



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Editorial Articles

The Mercury Position

SINCE the new Board of Administration of the Almaden mercury mines decided to suppress the publication of all statistical information in the earlier part of last year the market position of mercury has continued rather obscure. Within the past few months, however, the range of prices has been fairly well maintained, having varied only from about 15s. to 17s. 6d. per bottle from the highest point of £14 10s. recorded in the latter part of March, when an active demand synchronised with a marked spot scarcity. The Spanish surplus having previously been disposed of, as indicated in our editorial columns of May 23, the position of the market for first-hand supplies was obviously greatly strengthened, and at one period net c.i.f. terms for Italian mercury, which has been offering only in moderate quantities, were kept at a prohibitive level up to about £14 per bottle. Since, then, however, offers, chiefly of second-hand parcels, have been made to various

ports, including Hamburg, down to £13 net c.i.f., the depreciation in the rate of exchange having undoubtedly had a good deal to do with the concessions made. Incidental to the sudden large increase in the consignments of Spanish metal made to this country in April (our total imports for that month represented 5,901 bottles) there is no doubt that much of the Spanish product was liquidated on dealers' account. This factor caused the spot quotation here to decline in April to £13 10s., which level, however, was shortlived. The market since fluctuated around £13 17s. 6d., with occasional transactions for small lots at upwards of £14, although the trade demand has been inactive. Recently prices varied down to £13 10s. for fair lines. In May there was a sharp setback in the home imports to 1,100 bottles, and although the returns for June indicated a good recovery to 2,547 bottles, receipts have again fallen off, the figures for July being only 729 bottles. The available surplus, therefore, must have been again appreciably reduced, allowing for the usual home needs and re-exports during the past month. Whatever surplus exists in this market is probably held chiefly in one quarter, and it would seem as though a system of rationing the London market prevails, and this may continue in the near future. In the event of a revival of buying for the home trade, however, more important quantities would doubtless be diverted to this side from the Continent through dealers against old contracts with the mines. As it is, there does not seem to be much actually offering on the spot, while it was recently suggested that ample financial aid had been secured in connection with the acquisition of the Spanish surplus some months ago. An analysis of the Board of Trade returns covering the first seven months of this year, with figures for the previous two years, gives the following interesting comparisons:—

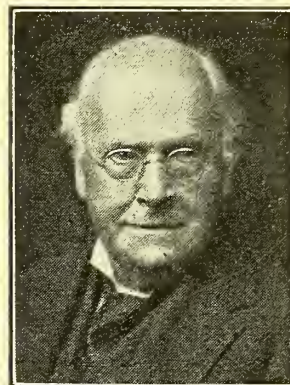
		U.K. Imports		
Bottles		1923	1924	1925
July ... ..	...	1,521	754	729
January-July ... ..	...	25,405	18,153	12,679
		U.K. Re-exports		
Bottles		1923	1924	1925
July ... ..	...	308	511	196
January-July ... ..	...	12,363	3,686	3,098
		U.K. Net Imports		
Bottles		1923	1924	1925
July ... ..	...	1,213	243	533
January-July ... ..	...	13,042	14,467	9,581

These returns are certainly striking, giving unmistakable evidence that supplies actually handled through the home market have undergone a marked shrinkage within the last two years. The imports for the seven months, compared with the same period two years ago, were practically cut in half, being only 12,679 bottles, out of which 3,098 bottles were re-exported, thus leaving net imports at 9,581 bottles, against 14,467 bottles and 13,042 bottles respectively by the end of July in the two previous years. There is, of course, no doubt that much larger quantities of mercury have been finding their way direct to foreign consuming countries, although probably a good deal of the business has been arranged through London houses. Having regard to the Far Eastern markets, however, there is reason to assume that Italy has been booking orders direct on many occasions; it was reported recently that an important order for China was placed through a London firm, although the metal was shipped from a Continental port. So far as can be gathered, the Continental producers are still in a strong position; first-hand stocks in Spain are believed to be negligible, while it is suggested that Italy is fairly well sold up, yet Italy is quoting below Spanish prices, being apparently determined to get the bulk of the business. In conclusion, the statistical position on this side may become more stringent, while a certain period must elapse ere any

important headway can be made with production at the Almaden mines. According to the views expressed in a certain quarter on this side, no weight of new Spanish production is likely to come on the market much before October. At this year's comparatively high prices, the best and most favourably situated mines in America have doubtless been worked more profitably.

The Constitution of the Earth

THIS year the British Association for the Advancement of Science met at Southampton from August 26 to September 2, the presidential address being given by Professor Horace Lamb, D.Sc., LL.D., F.R.S. In accordance with the time-honoured tradition that the President of the Association should deal with some subject in which he himself had been interested, Professor Lamb elected to speak mainly from the mathematical and physical standpoint about some branches of geophysics, and in particular those relating to the constitution of the earth. He prefaced a most interesting address, however, with a few pertinent reflections on the nature and purpose of science in general. As the President pointed out, this theme is more or less of perennial interest. What he described as the almost consecrated formula "to subdue the forces of Nature to the service of man" cannot now be said worthily to convey the real inspiration of discovery through the ages. In giving concrete examples for proving his statement he pointed to the work of Faraday and Maxwell. When they were feeling their way to an electric theory of light they could hardly have dreamed of wireless telegraphy, although this was a development, so to speak, just round the corner. The primary aim of science, as we understand it, is to explore the facts of Nature, to ascertain their mutual relations, and to arrange them so far as possible into a consistent and intelligible scheme. It is this endeavour which is the true inspiration of scientific work, as success in it is the appropriate reward. The material effects come later if at all, and often by a very indirect path. Proceeding, Professor Lamb briefly traced the affinity between science and art, and paid a well-merited tribute, also, to the work of the National Physical Laboratory. A misconception of the true function of science is revealed in such a criticism as is contained in the words, the "bankruptcy of science." It seemed, he said, as if science at some time had held out promises which it could not fulfil. Extravagant and impossible claims have sometimes been made on behalf of science, but the real leaders have always been most modest in their claims and guarded in their forecasts. In the enthusiasm which attended the first sensational developments of modern industry hopes were conceived of a new era, where prosperity would ever increase, poverty would be at least mitigated and refined, national antipathies would be reconciled. When these dreams did not swiftly come true there was the inevitable reaction, and science has rather unreasonably come in for its share of depreciation. "We may ask why should science, as we understand it, be held responsible for the failure of hopes which it can never have authorised? Its province is vast, but has its limits.



Photo] [Russell
PROFESSOR HORACE LAMB, F.R.S.

It can have no pretensions to improve human nature; it may alter the environment, multiply the resources, widen the intellectual prospect, but it cannot fairly be asked to bear the responsibility for the use which is made of these gifts. That must be determined by other and higher considerations. Medical science, for instance, has given us longer and healthier lives; it is not responsible for the use which we make of those lives. It may give increased vitality to the wicked as well as the just, but we would not, on that account, close our hospitals or condemn our doctors. Science has never been so widely and so enthusiastically cultivated as at the present time, with so complete sincerity or with more brilliant success, or even with less of international jealousy." From this general review of the aim of science, Professor Lamb passed to the main theme of his discourse, confining himself to a rapid survey of the information concerning the present constitution of the earth. He first emphasised the intimate connection between the accurate investigation of the figure of the earth with the variation of gravity over its surface. In view of the local irregularities, some convention was necessary as to what is meant by the shape of the earth as a whole. The usual definition is that it is a level surface as regards the resultant of true gravity and centrifugal force: often that particular level surface of which the sea forms a part. Of recent interest are the irregularities in the intensity of gravity, which have been found to exist over wide areas, by the highly trained Survey of India, by the Coast and Geodetic Survey of the United States, and by various observers on the continent of Europe. Briefly, the general result is that in mountainous regions the observed value of gravity is abnormally low, while on oceanic islands, and so far as can be ascertained on the sea, it is abnormally large, when all allowance has been made for altitude and the normal variation with latitude. The accepted explanation, originated by Archdeacon Pratt, of Calcutta, in 1859, and since developed especially by Hayford and Bowie, of the U.S. Survey, is that if we imagine a level surface to be drawn at a depth of about 100 kilometres, the stratum of matter above this, though varying in density from point to point, is approximately uniform, in the sense that equal areas of the surface in question bear equal weights. The altitude of the mountains is held to be compensated by the inferior density of the underlying matter, while the oceanic hollows are made up for by increased density beneath. Leaving aside the technical evidence on which this hypothesis is based, there are one or two points to be noticed. In the first place it suggests that the matter in the interior of the earth, below the stratum referred to, is in a state of purely hydrostatic stress, i.e., of pressure uniform in all directions. So far as this stratum is concerned, it might be floating on an internal globe of liquid, although no assertion is really made, or is necessary, to this effect. But in the stratum itself shearing forces must be present, and it is necessary to consider whether the actual material is strong enough to withstand the weight of continents and mountains, and the lack of lateral support due to the oceanic depressions. The researches of Professor Love and others show that this question can fairly be answered affirmatively. The accurate determination of the acceleration of gravity at any place is a matter of great delicacy, and the President briefly alluded to the work in this direction, indicating that the pendulum method, when practicable, gives the most accurate results. In all speculations on the present subject, considerations as to the thermal history of the earth and the present distribution of temperature in the interior play an essential part. Radioactivity, he said, had assisted in estimating the time that has elapsed since the final consolidation of the

earth's crust. The conclusion is that it must lie definitely between 10^9 and 10^{10} years. After a brief recapitulation as to the degree of rigidity of the earth, all estimates of which are very high, Professor Lamb paid a tribute to John Milne, who was principally responsible for the inception of a system of widely scattered seismological stations. The chief result of this was to provide knowledge of the elastic properties of the earth from a new quarter, namely, the propagation of earthquake shocks. The method of interpreting the results obtained was explained by the President, who expressed his regret that at present so little is being done in the way of interpretation of seismic records. "Even on this rapid review of the subject it should be clear that there is an apparent inconsistency between the results of two lines of argument. On the one hand, the thermal evidence points to the existence of a high temperature at a depth which is no great fraction of the earth's radius, so high indeed as to suggest a plastic condition which would readily yield to shearing stress. On the other hand, the tidal arguments, as well as the free propagation of waves of transversal vibration at great depths, indicate with certainty something like perfect elasticity in the mathematical sense. It is conceivable that the material in question, under its special conditions, though plastic under steady application of force, as, for instance, centrifugal force, may be practically rigid as regards oscillatory forces, even when their period is so long as a day or a fortnight. But beyond that we can hardly, with confidence, go at present." In conclusion, Professor Lamb pointed out that his subject furnishes an instance, not so familiar as some, of the way in which speculations which appear remote from common interests may ultimately have an important influence on the progress of science. It is true that the secular investigations into the form of the earth's surface have an importance in relation to geodesy, but certainly no one at the time of Laplace's work on this matter would have guessed that he was unwittingly laying the foundation of the whole mathematical theory of electricity. The history of science is full of examples where one branch of science has profited by another in unexpected ways. Two examples which he quoted were the theory of elasticity in Rayleigh's classical determinations of the relative weights of the gases and the mathematical theory of hydrodynamics, which at the hands of Prandtl yielded the best available scheme of the forces on an aeroplane, and it is even being appealed to, to explain the still perplexing problem of the screw-propeller.

Insurance Dispensing Position.—IV

Late Dispensing Service (2)

THE Retail Pharmacists' Union set out the present position of late dispensing clearly in Paragraph 98 of their statement of evidence presented to the Royal Commission:

Urgent Prescriptions.—The chemists' hours of business have to be notified to the Insurance Committee, and 8 p.m. is generally taken as the closing hour. A double dispensing fee is allowable for prescriptions dispensed after that time if the prescription is marked "Urgent" by the doctor and the chemist endorses the prescription with a declaration as to the hour when it was dispensed. This urgent fee is also payable for prescriptions dispensed outside the normal opening hours on bank holidays, Sundays and public holidays.

This question as to how long the chemist should keep open for Insurance dispensing only arises where the surgery closing hours are later than the chemists' normal hours. Chemists' representatives were asked during the course of their evidence before the Commission whether they considered that there was a satisfactory night service throughout the country, and particular reference was made to the arrangements in London. The answers to the following questions were given by Mr. A. R. Melhuish:—

18,154. With regard to the general working of the scheme, do you consider that wholly satisfactory arrangements are made with regard to a night service everywhere?—I think, broadly speaking, we may say yes. I have here a map of the whole of London with the resident chemists and those who are available for services such as you speak of. It covers every area in London. (Map handed in.) . . .

18,156. If you take a town of, let us say, 300,000 inhabitants what would be the arrangement?—As a general rule I think you will find that well over 50 per cent. of the chemists are resident over their pharmacies.

18,158. . . . Do you think that in the case of any kind of patients the night service is satisfactory?—I think, broadly speaking, it is.

In the course of this evidence attention was directed to the fact that the late presentation of a prescription is not always the result of late surgery hours. Some educational work on such points as these might usefully be attempted by approved societies among their members :—

18,159. You refer to a co-ordination between the doctors and the chemists. There is a kind of peak of pressure in the work at certain hours, is there not?—Yes, that is so.

18,163. . . . Most of the pressure that comes in the evening is due to prescriptions written in the evening. But we have had prescriptions that have been brought in after the closing hours that have been written the day before on many occasions.

18,165. I suppose in many cases the evening hours of a surgery go beyond the hour at which your shops are normally open?—In some cases, but not in all.

From Mr. Melhuish's answer to Question 18,154 it is evident that the London Pharmaceutical Committee has made an attempt to deal with this question, and if the late service there referred to can be guaranteed, the needs of the insured persons in the Metropolis should be met. The same problem will arise in all large towns. The character of the district in which the pharmacist practises largely influences the question of his closing hours. To take London as an example, it is conceivable that Hampstead chemists might be able to close their shops at 7 p.m., while for those situated in Bermondsey 9 p.m. might be more suitable. It would, however, be as unreasonable to fix the Hampstead hour for the whole county of London as it would to take that of Bermondsey. It is for just such situations as these that one of the Insurance Medical Benefit Regulations we quoted in our issue of August 22 (p. 298) is made. The hour of 8 p.m. is a reasonable one for the ordinary closing of chemists' shops, but if any district requires any time later than this special arrangements must be made for that district. In a large area, if agreement on this question cannot otherwise be secured, it should be possible to arrange in each district a meeting of representatives of the local doctors and chemists with one or two members of the Insurance Committee. The secretaries of the Panel and Pharmaceutical Committees might also attend these local conferences, because of their special knowledge of conditions of service in the area. The closing hours for doctors' surgeries and chemists' shops could then be mutually considered. If it was agreed in

SURGERIES' conference (and this is quite conceivable) that **CLOSING** the surgeries must remain open later than **HOURS** the normal closing hour of 8 p.m. for the shops, the doctors should agree upon a standard closing hour for all their surgeries, and this hour should be faithfully observed whenever possible. A dispensing rota could then be arranged, so that one or more chemists in the district would give a continuous service up to that hour. In considering the pharmaceutical service in any large urban area, it is only to be expected that varying conditions will be found in different districts. In some, no rota will be necessary; in many others amicable arrangements will be possible; in only very rare instances, if in any, will it be found that

no agreement among the local professional agents of the Insurance Committee can be reached as to the supply of *necessary* medicines to insured persons after the chemists' ordinary closing hour. It is a difficult and tedious task to cover the whole of an area in this way, but in no case should it be impossible to produce a scheme agreeable to all parties, given goodwill and the desire to co-operate on the part of the doctors as well as the chemists. A detailed knowledge is necessary of the topographical situation of each shop and of the means of access which are available for insured persons. It is desirable that as many chemists as possible should be able to close their shops at the normal hour without inflicting hardship upon insured persons, and it is because of its sympathetic knowledge of special business conditions that the Pharmaceutical Committee will be of invaluable assistance in drawing up this scheme. There are objections to the rota system which are difficult to overcome.

THE ROTA The chemists who are not on duty for the **SYSTEM** night must, when closed, exhibit a notice directing the patient to the nearest open pharmacy. Under the rota, therefore, it has been said, chemists are asked to advertise the shop of their competitor to whom it has fallen to do the late dispensing. Many pharmacists, indeed, would rather keep open late themselves than do this. Naturally, no chemist would be compelled to close his shop; but there is not much danger to any chemist in the scheme if all co-operate and take a share of the work. Each pharmacy—lock-up shop or otherwise—should take its turn in rota duty, and in all probability shops under management would be prepared to participate. Another objection which has been raised in this connection is that any late duty such as is suggested would in practice generally fall to the lot of the proprietor himself. Assistants, it is said, will not stay late unless they are paid specially for the work, and the profit on the business done would not be sufficient to warrant this expense. It is possible that all the chemists in one district could arrange to employ the same qualified man for this late work, and his remuneration might be a matter for joint agreement. As an alternative solution of the difficulty, we suggest that the R.P.U. should approach the Ministry of Health with proposals for a special payment to be made for late dispensing *irrespective of the number or character of the prescriptions dispensed*. This standard fee might be based on time. It is known beforehand, for instance, that chemist No. 1 will remain open for one hour extra each night in a certain week to do late dispensing. If he were paid at the rate of, say, 5s. an hour (the rate is not important for the moment—though it would have to be adequate), he would receive 30s. for his week's extra work. Calculating "urgent" fees at 10d. per prescription, this payment is only equivalent to the fees in respect of 35 bottles of medicine for the week; and if there is any need for a rota at all in the district, the chemist would probably receive at least 36 prescriptions throughout his week of late service. This arrangement would ensure that any chemist who was due to take late duty would be enabled to pay his qualified assistant adequate wages for the extra work. Under the rota system, any doctor in the district ought to be able to say to his patient "The chemist open to-night for dispensing your prescription is Mr. Jones, Blank Street: you will be able to get this made up there if you take it before 9 p.m." Undoubtedly this late service throws a burden upon Insurance chemists and increases their responsibilities. On the question of principle, however, chemists will be well advised to accept this responsibility for the supply to insured persons of all the medicines they may require *during reasonable hours* of business. That is in fact what they contract to do, and the principle is worth preserving even at some sacrifice.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, September 3.

WITH the close of August, market demand in the Mincing Lane produce markets is expected to improve, and although there is no tangible evidence of it, so far, yet the tone is more confident. Among crude drugs, senega is firmer and eunomus bark easier. Hydrastis is fully maintained, owing to a large export demand in U.S. Saffron is cheaper, while the spot stocks of soy have been practically cleared. Opium is offering at previous prices, but a gradual decline is expected at the sources. Shellac is easier, and Morocco coriander seed is offered at cheaper rates. In the essential oil group, Japanese mint has continued in active demand and is dearer both on the spot and all forward positions. New crop American peppermint is in an unprecedented position, several of the principal sellers standing off until the position is clearer. Star anise is quieter after sales at higher rates. Spearmint is again dearer. In the pharmaceutical chemical group, salicylates are reported firmer with more inquiry. Hexamine is rather cheaper, and bromides are unsettled. Caffeine is lower. Antimony preparations are dearer. Among industrial chemicals conditions show little change. Potassium carbonate and formaldehyde are inclined to be firmer. Arsenic remains flat and unsteady, while sodium nitrite is cheaper. Carbolic acid is active, and the price of crystals is fully maintained. Among fixed oils, etc., business has been poor, but no serious decline in values is recorded. Palm oils are steadier, and linseed is lower; turpentine is dearer on an active demand, and wood oil is cheaper. Castor is £1 per ton lower, and still weak. Petroleum jellies are easier.

Higher	Firmer	Easier	Lower
Anise star oil (c.i.f.)	Bergamot oil Lavender oil (Fr.)	Bromides Cassia oil Citronella oils Eunomus bark	Caffeine (pure cryst.)
Antimony preparations	Pimento (c.i.f.)	Coriander seed	Castor oil
Apricot kernel oil (Fr.)	Potash carbonate	Linseed oil	Cocoa butter (Amst.)
Lemongrass oil (Cochin)	Salicylates	Petroleum jellies	Geranium oil (Alg.)
Mint oil	Senega	Rosewood oil	Glucose
Pepper, white		Shellac	Hexamine
Resin		Soya oil	Saffron
Rubber	Steatite	Tannic acid (B.P.)	Sodium nitrite
Soy			Wood oil
Spearmint oil	Palm oils	Turmeric	
Turpentine			

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	August 26	September 2
Amsterdam	Fl. to £	12.107	12.05½—12.05½	12.04½—12.04½
Berlin	M. to £	20.43	20.40½—20.42	20.37—20.38
Brussels	Fr. to £	25.22½	107.50—107.60	108.20—108.25
Bulgaria	Lev. to £	25.22½	660—680	660—680
Caleutta	Perrup.	24d.	18½d.—18½d.	18½d.—18½d.
Constantinople	Pst. to £	110	830—845	830—840
Greece	Dr. to £	25.22½	318—320	327—330
Hong Kong	T. to £	—	28½d.—29½d.	28½d.—28½d.
Italy	Lire to £	25.22½	130—130½	122½—122½
Kobe	Yen	24.58d.	20½d.—20½d.	20½d.—20½d.
Lisbon	Eseu.	53½d.	24½d.—24½d.	24½d.—24½d.
Madrid	Pts. to £	25.22½	33.74—33.76	33.90—33.92
Montreal	\$ to £	4.86½	4.85½—4.85½	4.84½—4.85
New York	\$ to £	4.86½	4.85½—4.85½	4.85½—4.85½
Oslo	Kr. to £	18.159	24.90—24.95	23.70—23.75
Paris	Fr. to £	25.22½	103.80—103.90	103.30—103.35
Singapore	Per dol.	—	28½d.—28½d.	28½d.—28½d.
Switzerland	Fr. to £	25.22½	25.06½—25.07½	25.08½—25.09½
Vienna	Sh. to £	24.02	34.48—34.52	34.36—34.42
Warsaw	Zloty to £	25.22½	28.00—28½	27—27½

Cablegram

NEW YORK, September 2.—Business is dull. Peppermint oil has advanced to \$15.00 per lb., and hydrastis (golden seal) is \$4.90 per lb. Copaiba is cheaper at 47½c. per lb.

Crude Drugs, etc.

ANTIMONY has been very quiet, but steady. Chinese regulus on the spot is quoted about £64 10s. to £65, and to arrive £62 c.i.f., while forward offers have been heard at £1 a ton less. Quotations for English refined now range from £75 to £80. Crude remains quite nominal.

APRICOT-KERNEL OIL.—French is dearer at 2s. 4d. per lb. to come forward.

BALSAMS.—Tolu is firm at 5s. per lb. for good hard quality, and balsam Peru is steady at 7s. per lb.

CARAWAY SEED.—Dutch new crop for prompt shipment is offered at 27s. 6d. to 28s. per cwt. c.i.f.; spot is 30s.

CARDAMOMS.—An auction sale of 42 cases will be held to-day (Thursday).

CASCARA SAGRADA is unchanged at 55s. per cwt. c.i.f. for prompt shipment.

CASCARILLA is selling at 3s. 9d. per lb. on the spot for quill; supplies, however, continue small, and any arrivals are quickly taken up.

CHAMOMILES remain firm. Belgium new crop offering, ex wharf, at from 140s. to 150s. per cwt. as to colour, and for old brown 80s. is quoted.

CINCHONA.—At the auction held in Amsterdam on August 26 59,270 kilos. Java pharmaceutical bark, representing 1,608 kilos. quinine sulphate, were offered for sale, as well as 3,130 kilos. Bolivian bark with a content of 210 kilos. quinine sulphate. 25,045 kilos. Java bark, representing 645 kilos. quinine sulphate were sold at from 52 to 151 cents. per ½ kilo. The 100 bales of Bolivian bark were bought in. The next auction will take place on September 30.

CLOVES are quiet but firm, with Zanzibar offering on the spot at 11d. per lb. To arrive, October-December shipment, has been sold at 10½d. to 10½d. c.i.f. The statistics for the week ending August 29 show 59 bales landed and 786 delivered, leaving a stock of 9,707, against 22,673 in 1924 and 16,364 in 1923. So far this year the landings have been 9,526, against 37,964 last year, and the deliveries 14,923, against 34,668 in 1924.

COCOA BUTTER.—Prime English CFR is quoted at 1s. 5½d. per lb., and other makes at 1s. 5d. in not less than one-ton lots. At the Amsterdam auction Van Houten's "A" quality sold at 83.96 c., against 85.36 c. in August; "B" quality at 79.73 c., against 80.69 c., and Blooker's at 79.55 c., against 78.02 c. in August.

COD LIVER OIL.—Our Bergen correspondent writes on August 31:—"Although the price of cod liver oil is falling in Norwegian kroner it is advancing in sterling currency owing to the rapid and important improvement of kroner. To-day's quotation for non-freezing steam-refined oil is about 166s. to 167s. per barrel c.i.f. London.

DAMIANA LEAVES continue very scarce on the spot, a limited supply offering at 5s. per lb. Offers of the new crop are expected this month.

ERGOT.—It is difficult to get offers of Spanish and prices are nominal at from 1s. 10½d. to 2s. per lb. c.i.f.

EUNOMYUS BARK is cheaper. spot offering at 3s. 4d. per lb.

FUSIL OIL is weak at about £110 per ton.

GINGER is steady. African on the spot offering at 63s. per cwt., and August-September shipment at 60s. c.i.f. Scraped is not so freely offered, and the general output shows continued improvement in quality. The "Benin" from Sierra Leone has brought 3,264 bags to London. Japanese is 90s. spot and 85s. c.i.f. London or Hamburg for August-September shipment.

GLUCOSE is 3d. per cwt. lower, American guaranteed water-white offering at 24s. 3d. per cwt., duty paid, landed terms for September-October delivery.

HOPS.—An extensive inspection of all hop-growing districts by several of the leading hop factors has led them to the conclusion that, with the improvement which has taken place during the last few weeks, there will be a full average crop of fine hops picked, of excellent quality, very sound and clean. The hop plant in the early part of the season was visited by a severe attack of aphid, but this was mastered before any serious damage was done.

HYDRASTIS.—A continued active export demand in the U.S.A. has led to gradually rising prices, and sellers quote on the parity of 20s. 6d. per lb. c.i.f., with supplies difficult to find.

ISINGLASS met a good demand at auction, and practically all the offerings—939 packages—were disposed of at slightly irregular prices.

MENTHOL continues quiet, with Kobayashi-Suzuki offering at 45s. to 45s. 6d. per lb. on the spot. Sellers of September-October quote 42s. c.i.f.; October, 40s. 6d.; and October-December, 37s. 6d. c.i.f.

MERCURY.—The market is apparently affected by the distinct poorness of trade demand, while the few enquiries coming forward are for very small lots. Supplies on the spot are therefore quite ample, although well held. Italian competition has made itself felt to some extent. Quotations for spot lots have ranged from £13 10s. to £13 15s., with some holders naming £13 12s. 6d.

OPIMUM.—With small spot stocks, holders quote Turkey druggists' at from 2s. 4½d. to 2s. 5d. per unit, according to test. New crop, of which a good supply is offered, can be had on c.i.f. terms at 2s. 2d. per unit.

CONSTANTINOPLE, August 25.—"During the period August 12 to date arrivals were as follows: Druggists' 296, 'softs' 19, and Malatia 22. Stocks amounted to: Druggists' 291, 'softs' 48, and Malatia 26. Thirty-six cases druggists' have been sold at £T24 to £T26, eleven cases 'softs' at £T28 to £T29, and four cases Malatia at £T28. The market appears to be genuinely buying; as a set off, holders do not seem to realise the abundance of this year's crop, nor the keen competition between Macedonian and Turkish opiums. Merchants who have realised more than £T30 these past two years have returned home without selling more than a few kilos of their production. We foresee a gradual decline in prices."

PEPPER is firm, with fair black Singapore offering at 8½d. per lb. To arrive, September-November and October-December is quoted at 8½d. per lb. c.i.f., f.a.q. Lampong is 8½d. spot; September-November shipment has been sold at 8½d. to 8½d. c.i.f., and October-December at 8½d. to 8½d. c.i.f. White Muntok is dearer at 1s. 1½d. to 1s. 1½d. per lb. To arrive, sales include August-October at 1s. 1d. to 1s. 1½d., October-December 1s. 1½d. to 1s. 1½d. c.i.f.; Singapore on the spot is 1s. 1½d.

PIMENTO remains firm at 5d. to 5½d. per lb. on the spot. October-November shipment is quoted at 38s. 6d. c.i.f. Demand for export continues good.

PODOPHYLLUM ROOT.—Small sales of American (*P. Peltatum*) have been made at 65s. per cwt.

RESIN continues to advance, being from 6d. to 2s. per cwt. higher as to quality. American B/D is 26s., E 26s. 6d., F/G 27s., N 27s. 6d., WG 29s. 6d.; WW 32s. French F/G nominal; WW 28s. per cwt., ex wharf, London.

RUBBER has shown renewed activity and prices have rapidly advanced on general buying. The advance has been chiefly on the forward positions, and at one time the October-December position showed an improvement of 4½d. per lb. over last week's quotation. At the close an easier tone manifested itself on an absence of buying orders. The advance is principally due to substantial buying orders from the Continent as well as from New York, with the result that stocks have again heavily declined. Last week deliveries exceeded arrivals by 955 tons; the present London stock now stands at 4,440 tons. There seems to be a much healthier feeling on the market and prices might easily advance again, as the small stock is held by the strongest dealers on the market. Quotations (Wednesday, 5 p.m.):—No. 1 standard ribbed smoked sheet, spot and September, 3s. 5½d.; October-December, 3s. 1d.; January-March, 2s. 10½d. per lb.

SAFFRON.—Superior Valencia is offered at from 105s. to 110s. per lb., being cheaper.

SEEDS.—There has been but little doing again in the seed market, and prices keep about the same. **ANISE:** Spanish, 60s.; Russian, 50s.; Levant, 49s. **CANARY SEED:** Mazagan keeps firm, with sellers at 33s. 6d. per cwt. on the spot, but no buyers; good bold Spanish is offered at 36s. spot. **CORIANDER SEED** is in very small demand, with sellers at 20s. per cwt. on the spot for Morocco. **CUMIN SEED** is quiet; Maltese has sellers at 55s.; Morocco is steady at 52s. 6d. on the spot. **DILL SEED** is steady at 21s. 6d. per cwt. **FENUGREEK SEED** (Morocco) is steady at 16s. to 17s. per cwt. spot. **HEMP SEED:** Manchurian is 17s. **LINSEED:** Morocco is quoted at 23s. spot. **MUSTARD SEED:** English is still scarce at 36s. per cwt.

SENEGA is firmer to arrive at from 2s. 8d. to 2s. 9d. per lb. c.i.f., but at the moment it may be possible to buy parcels from secondhands at 2s. 7d. c.i.f. Spot is firm at 2s. 8d. The "Canadian Trapper" has brought 45 bales from Montreal, but they are mostly sold to arrive.

SHELLAC is easier with usual standard TN orange quality offering on the spot at from 220s. to 225s. per cwt.; fine second orange is 250s., pure button 255s., and AC cakey 230s. Futures are also easier. October has been sold at 210s. to 207s. 6d., and December has been sold at 205s. to 202s. 6d. To arrive, TN for September-November shipment is quoted 5s. cheaper at 200s. c.i.f.; Calcutta spot has been sold at Rs. 94.

SOY is about 7½d. to 8d. per gallon dearer than when last we quoted, and spot stocks have been practically cleared by consumers at up to 4s. per gallon duty paid. Few arrivals have taken place of late.

STARCH PRODUCTS, ETC.—Dutch maize starch powder (corn-flour) is 18s. per cwt., American is 17s. 10½d., and pearl

starch 17s. 4½d. per cwt. net on the spot. American maize starch crystals is 21s. 6d. net, and Dutch crystals is 21s. 6d. per cwt. Dutch farina is 20s. for superior, and prompt shipment is 19s. per cwt. f.o.b.; superior Dutch (maize) dextrin is 26s. 6d., and No. 2, 25s. 6d. American canary dextrin is 22s., and white 21s. 9d. per cwt., ex store, London.

STRAMONIUM LEAVES.—Genuine Italian offer at £46 10s. per ton c.i.f. to arrive.

TURMERIC.—Fair Madras finger is cheaper on the spot, with offers at 35s. per cwt. For shipment, 28s. to 30s. c.i.f. to arrive is quoted. Cochin split bulbs are steady at 20s. There appear to be no offers of Bengal finger.

WAX (BEES') is firm, with Benguela offering to arrive at 170s. per cwt. c.i.f. Jamaica is £9 to £9 5s.; bleached Calcutta, £9.

Essential Oils

IMPORTANT price changes have taken place during the week, but demand is only moderate, with the probable exception of Japanese mint oil, which has been very active at steadily advancing rates. Star anise is dearer to arrive, and Cochin lemongrass is higher, although demand has been inactive. Bergamot is firmer and French lavender is dearer. Cassia oil is quiet and easier. Citronella oils have moved in buyers' favour: Algerian geranium and rosewood oil are cheaper.

ANISE (STAR).—During the week spot sales of "Red Ship" have been made at 3s. 4½d. per lb. In the interval there was a slight reaction to 3s. 3d., followed by a recovery, 3s. 4½d. to 3s. 6d. being quoted at the close. For shipment, offers have been made at 3s. 2½d. to 3s. 3½d. c.i.f. to arrive. Offers are now being made of "Red Ship" in tins and cases on a net basis instead of the usual allowances.

BERGAMOT is firmer at from 22s. 6d. to 23s. 9d. per lb. c.i.f. for 37 to 39 l.a. Spot sales of a well-known brand are reported at 20s., and from 19s. to 21s. is about the current range of quotation as to brand.

CASSIA on the spot is on the easy side, with sellers of 80 to 85 c.a. at 8s. 6d. per lb., or a shade less. For shipment 8s. c.i.f. is a current offer.

CITRONELLA.—Ceylon on the spot is unchanged at 2s. 0½d. per lb., and for shipment easier at 1s. 10½d. c.i.f. to arrive. Java is steady at 3s. 7d. spot, and cheaper to arrive at 3s. 6d. c.i.f.

CLOVE.—English distilled is quoted at the unchanged rate of 6s. 6d. to 7s. per lb.

GERANIUM.—Bourbon is unchanged, with sellers on the spot at from 15s. to 15s. 6d. per lb., and for shipment 160 fr. per kilo (= 14s. per lb. approximately). Algerian is cheaper to arrive at 155 fr. per kilo (= 14s. 6d. per lb. approximately). On the spot sellers quote 17s. 6d. to 18s.

LAVENDER.—In further reference to our report of August 15, there appears to have been no weakening in the position of new crop French oil. Heavy rains in some districts are said to have further adversely affected the yield of oil. A fair amount of business was done early at relatively cheap rates, down to 21s. 6d. per lb. having been paid. Further offers at the price are apparently no longer obtainable. Importers state that values at the source have advanced by the equivalent of 2s. to 2s. 6d. per lb. during the week. Spot offers of new crop are made at from 22s. 6d. to 26s. per lb. for 38 to 40 per cent. natural esters according to seller.

LEMON.—According to eabled offers from the source, from 5s. 9d. to 6s. per lb. c.i.f. to arrive is wanted, according to brand. On the spot, however, competition between dealers for business appears to be very keen at much lower levels; from 4s. 6d. to 5s. is about the current range.

LEMONGRASS.—Cochin has sharply advanced at the source at from 4s. 4d. to 4s. 5d. per lb. c.i.f. to arrive. Demand is slow and spot could probably be obtained at below these prices.

MANDARIN ranges from 25s. to 30s. per lb., according to brand.

MINT.—Japanese dementholised Kobayashi-Suzuki has continued in active demand, principally on speculative account, which has brought in consumers to some extent during the week, and from 19s. up to 22s. 6d. per lb. has been paid on the spot. On Wednesday, at the close, sellers were asking from 22s. 6d. to 25s. There are sellers of afloat at 22s. 6d. c.i.f. Sales during the week include August-September, 17s. 9d. to 19s.; September-October, 15s. 9d. to 17s. 9d. (sellers 18s.); October-November, 16s. to 16s. 3d.; October-December, 14s. 6d. to 15s. 6d.; January-March, 13s. 6d. (sellers at 13s. 9d.) c.i.f. terms.

ORANGE.—Sicilian sweet is unchanged to arrive at from 9s. to 9s. 6d. per lb. c.i.f. as to brand. There are sellers on spot at 9s. and less. West Indian sweet is offered at 8s. 6d.

PEPPERMINT.—American natural tin oil remains in an uncertain position. The view is held that the present deadlock is largely influenced by speculators, who have encouraged farmers in the belief that high prices can be

again obtained by holding long enough at the present levels. There would be something in this view if consumers can be persuaded to come in at the figures quoted. Meantime, however, some of the leading sellers are not in the market, and offers are difficult to get, but in one instance from 62s. 6d. to 65s. per lb. c.i.f. is quoted.

ROSEWOOD (BOIS DE ROSE) is slightly easier on the spot with sellers at from 11s. 6d. to 12s. per lb. In large quantities, entrepôt Havre, about 126 fr. per kilo. (= 11s. per lb.) has been quoted.

SPEARMINT.—American is dearer from first-hand sellers at 42s. per lb. In other directions supplies are obtainable at 40s. or less while stocks remain.

WORMSEED.—American is nominal at 21s. per lb.

The following arrivals of essential oils have taken place during the period August 27 to September 2 (inclusive):—Camphor (Jp.), 30 cs., 31 dm.; caraway (Holl.), 3 cs.; cassia (Ch.), 15 cs.; cinnamon (Holl.) 1 cs., (Fr.) 1 cs.; citronella (Jv.), 9 dm., 2 cs.; eucalyptus (Aust.), 18 dm., 49 cs.; geranium (Fr.), 7 cs., 5 dm.; linaloe (Mex.), 5 dm.; mandarin (It.), 7 x 4 cs.; mint (Jp.), 20 cs.; peppermint (Denm.), 5 cs.; pimento (B.W.I.), 1 dm.; rose (Fr.), 3 cs.; sandalwood (Aust.), 18 cs.; spearmint (U.S.), 4 cs.; thyme (Fr.), 1 cs.; undescribed, (Fr.) 2 cs., (It.) 5 cs.

Pharmaceutical Chemicals, etc.

SALICYLATES are reported firmer in some quarters, with quite a fair inquiry about. Bromides are at the moment unsteady and moving to easier rates. Hexamine is cheaper on a "cut" market. In other directions the market shows little change, with business limited.

ACETANILIDE continues to be quoted at steady rates in the region of 1s. 5½d. to 1s. 6d. per lb. spot, with occasional business being done for B.P. crystals and powder.

AMIDOL is quoted at about 7s. per lb., and metol at 9s. 3d. per lb.

AMIDOPYRIN shows no improvement in demand at from 13s. 6d. to 13s. 9d. per lb.

ANTIMONY PREPARATIONS are dearer. Makers quote antimony bromide at 22s. 6d. per lb.; antim. iodide, 35s.; antim. nig., 65s. per cwt.; ditto, pulv., 70s.; antim. sulph. B.P., 1s. 11d. per lb.; antim. tart. cryst., 1s. 11d.; ditto pulv., 1s. 11d. per lb.

ASPIRIN is one of the few firm items, with business sustained: good brands, from 2s. 6½d. to 2s. 7d. per lb., according to quantity.

BARBITONE, at the cheaper rates, has attracted a fair business, with the sales prices at about 10s. 3d. per lb., and a little less for quantities.

BENZALDEHYDE, free from chlorine, has been lifeless, with dealers' quoted prices round about 2s. 9d. to 3s. per lb.

BENZOIC ACID (B.P. practically free from chlorine) is unchanged. There is no material sufficiently free from chlorine purposes to satisfy preservers' requirements, while the demand is good. Price nominal at 3s. 6d. per lb., spot. British make is 2s. 3d. per lb.

BENZONAPHTHOL remains dull, with dealers quoting at about 3s. 3d. to 3s. 6d. per lb.

BETANAPHTHOL.—Resublimed shows little life, and prices are easy, with about 3s. per lb. quoted.

BROMIDES.—Convention prices appear to be undercut by spot offers in some quarters, and it seems that a definite break in the market has taken place, with several sellers at below Convention rates. Spot: ammonium, about 2s. 3d. per lb.; potassium, B.P. crystals and granular, about 1s. 10d. per lb.; sodium, B.P. crystals and granular about 1s. 10d. to 2s. per lb.

CAFFEINE is cheaper, English makers quoting pure cryst. at 11s. 3d.; secondhands quote 11s.

CALCIUM LACTATE is steady, with British makers' prices of 1s. 4d. to 1s. 6d. per lb., according to quantity, attracting business.

CHLORAL HYDRATE holds steady, with business satisfactory, at 3s. 4d. to 3s. 5d. to 3s. 6d. per lb. on the spot for duty-paid crystals.

CITRIC ACID (B.P. crystals).—With business slow and the season ending the market is now quoted at about 1s. 2½d. to 1s. 3d. per lb., less 5 per cent. for quantities.

CREOSOTE (B.P.).—Importers' prices are steady at 2s. 1d. to 2s. 2d. per lb. on a quiet market.

CREOSOTE CARBONATE is dull at 6s. 6d. to 6s. 9d. per lb. in bottles.

GUAIACOL CARBONATE lacks interest, and the rates of 6s. 2d. to 6s. 3d. have been shaded.

HEXAMINE for some weeks has been unsteady, with isolated cheap offers about: quoted prices are now down to about 2s. 4½d. to 2s. 4¾d. per lb., according to quantity, and even these prices have been shaded.

HYDROQUINONE is bright on a steady market, with dealers quoting 4s. 4d. to 4s. 7d. per lb., according to quantity.

LACTIC ACID (B.P.) shows no change, and business is quiet. In bulk, 2s. 6d.; in bottles, 2s. 8d. per lb. Technical, 50 per cent by weight, £42 per ton net.

METHYL SALICYLATE.—Firm conditions prevail here, and most offers are up to 1s. 5d. per lb. from British makers, and dealers are asking about 1s. 6½d. in carboys.

METHYL SULPHONAL lacks good business, and prices are unsteady, varying from about 16s. 9d. to 17s. 3d. per lb.

MILK SUGAR.—Spot prices from importers are unchanged at 78s. to 79s. per cwt., according to quantity and source.

PARAFORMALDEHYDE (100 per cent. powder) continues to be quoted at about 1s. 7d. to 1s. 9d. per lb., but most business is being done at cut rates.

PARALDEHYDE has been in a little request at from 1s. 1½d. to 1s. 4d. per lb., according to quantity and packing.

PHENACETIN has been moving fairly well, but competition is keen with the basis for business well under the quoted rates of 4s. 2d. to 4s. 3d. per lb. for quantities.

PHENAZONE.—Spot business for quantities is reported down to 6s. per lb., with dealers quoting at about 6s. 1d. to 6s. 3d.; supplies are free.

PHENOLPHTHALEIN continues irregular, with material very free. Offers vary from 4s. to 4s. 3d. per lb.

POTASSIUM PERMANGANATE (B.P.) has been selling well, with dealers' prices according to the Continental Convention rates at about 8d. per lb., in drums, spot.

RESORCIN is quoted by British makers at about 3s. 10½d. per lb. for quantities, while dealers' prices are in the region of 4s. per lb.

SALICYLIC ACID (B.P.).—There is an improvement to record here with British makers' prices up to about 1s. 3½d. to 1s. 4d. per lb., as to quantity. Technical, about 10½d. to 11d. per lb.; dealers' prices for B.P. about 1s. 3½d. per lb.

SALOL is offered from 3s. 3d. up to 3s. 6d. per lb., the former price by British makers; market quiet.

SODIUM BENZOATE (B.P.) is now quoted on a very steady market, with not much available at 1s. 11d. to 2s. per lb.

SODIUM SALICYLATE.—British makers' prices continue to rule the spot market, with dealers' prices not competitive. B.P. powder, 1s. 10d. to 1s. 11d. per lb.; B.P. crystals, 1s. 11d. to 2s. 1d. per lb., according to quantity, at works.

SULPHONAL attracts little business, with willing sellers at a shade under the quoted rate of 12s. 3d. per lb., for quantities.

TANNIC ACID.—B.P. *levis* is a shade cheaper at about 2s. 8½d. per lb., for quantities, and 2s. 9d. per lb. for smaller lots.

TARTARIC ACID (B.P.).—Offers are free for quantities ex wharf at 11d. to 11½d. per lb., less 5 per cent., with but limited business being done.

TERPIN HYDRATE is steady on a quiet market at 1s. 7½d. to 1s. 8½d. per lb.

THYMOL.—British makers continue to list this at 11s. 6d. to 14s. per lb., according to quantity, while dealers' prices are at about 13s per lb. and upwards.

VANILLIN (100 per cent. from cloves) continues unchanged, with makers and dealers quoting at 21s. 6d. to 22s. 6d. per lb., as to quantity.

Among the chemicals which have paid Key Industry Duty are the following:—Ammonium persulphate, £367; cocaine hydrochloride, £1,367; cocaine alkaloid, £116; coumarin, £437; hydroquinone, £639; isopropyl alcohol, £682; lithium carbonate, £164; magnesium hydroxide, £234; metol, £277; paraldehyde, £131; quinine ethyl carb., £262; resorcin, £77; rhodine, £196; sodium bromide, £178; sodium phosphate, £195; vanillin, £977; undescribed chemicals, £1,925.

Industrial Chemicals, etc.

London, September 2.

CONDITIONS in this market show little change on the week, and business continues rather quiet, but a little better than of late. One or two products, such as carbonate of potash and formaldehyde, are a little brighter, while arsenic remains flat.

ACETIC ACID is steadier, with a little more business about: 80 per cent. technical, £38; 80 per cent. pure, £39 per ton, in barrels; glacial, 99 to 100 per cent., pharmaceutical, £66 10s. per ton, in glass demijohns, ex wharf; glacial in barrels, £55 per ton.

ACETONE holds firm, with supplies limited and a fair demand. B.G.S., £74 10s. to £75 per ton, in drums, ex wharf.

ALUM remains dull, with lump in casks quoted at about £9 to £9 5s. per ton, in casks.

AMMONIA (ANHYDROUS).—Dealers continue to do the usual spot business in small lots at about 1s. 3½d. to 1s. 4d. per lb. for 99.95 per cent., in loaned cylinders, carriage paid.

AMMONIUM CHLORIDE.—Grey galvanising finds a fair business, with dealers' spot prices steady in the region of £26 per ton, and cheaper for shipment.

ARSENIC continues very dull, and is certainly unsteady. The quotation for white powdered Cornish is at £18 per

ton, f.o.r. mines, with little or no interest. The general outlook points to still cheaper prices. The lowest price ever recorded was £9, and the pre-war price averaged about £13 per ton. It seems that production is now much heavier than normal requirements. Many small countries, such as Peru, Bolivia, Brazil, etc., where the fumes from works used to be released into the air, are now "converted," and these countries are now meeting their own requirements.

BARIUM CHLORIDE (98/100 per cent. prime white crystals) is offering cheaply from the Continent for shipment in quantities. The spot price is about £9 per ton.

BARYTES is steady, with dealers quoting at £3 5s to £6 per ton, c.i.f., as to quantity and quality.

BLEACHING POWDER.—Dealers are about level, with British makers' prices at about £9 7s. 6d. per ton, for 35/37 per cent. available chlorine.

COPPER SULPHATE.—Dealers are offering at about £24 per ton, ex wharf.

CREAM OF TARTAR is not meeting with much demand, and dealers' prices of 75s. to 77s. per cwt., less 2½ per cent., might be shaded for good business.

EPSOM SALT on spot is quoted at £4 5s. to £4 7s. 6d. per ton for commercial quality in bags: forward delivery slightly cheaper.

FORMALDEHYDE is steadier this week, with the ex wharf price about £39 per ton, for 40 per cent. by volume.

LITHOPONE is very steady, and a fair volume of business continues to be done at about £19 10s. to £20 per ton, for 30 per cent. Continental red seal, ex wharf.

OXALIC ACID has received a little more attention of late, and most of the stocks seem to have been cleared: quoted at 3½d. to 5½d. per lb.

POTASH CAUSTIC on spot is unchanged at £29 per ton, for 88/92 per cent. solid in drums, in small lots: a little cheaper for shipment in quantities.

POTASSIUM CARBONATE is firmer, with supplies on spot very limited and in strong hands: 90/92 per cent., £24 5s. to £24 7s. 6d.; 96/98 per cent., about £26 7s. 6d. per ton, in casks: enquiry quite good.

POTASSIUM CHLORATE continues to be quoted by dealers for shipment in quantities at 3½d. to 5½d. per lb., according to quantity, and a fair business has been done.

POTASSIUM PERMANGANATE.—Commercial quality in large parcels might be booked at about 5½d., but 6d. per lb. is the usual sales price.

POTASSIUM PRUSSIAN.—Yellow is steady, with business at about 7½d. and a shade less for quantities.

SAL AMMONIAC.—Market steady, with business fairly good for small lots: spot, dog-tooth crystals, £34; medium, £31; fine white crystals, £22 per ton, in casks: cheaper to come forward.

SALTCAKE from British works for home trade is offered at £3 15s. per ton in bulk, d/d.

SODIUM ACETATE remains flat, and some offers are down to about £18 2s. 6d. per ton.

SODIUM CHLORATE.—About £23 per ton is quoted, with a fair business about.

SODIUM HYPOSULPHITE.—Dealers' prices are steady at unchanged rates: photographic pea crystals, £13 10s. per ton in one-cwt. kegs; commercial quality, £9 per ton, in casks. British makers' prices are £14 to £15 per ton, as to quantity, delivered to buyer's station.

SODIUM NITRATE has been enquired for a little, with London prices unchanged: 96 per cent., £12 5s., and refined, £12 10s. per ton, f.o.r. docks, London.

SODIUM NITRITE is cheaper at £22 10s. per ton, docks.

SODIUM PRUSSIAN has been in quite good request, with British material at about 4d. per lb.

SODIUM SULPHIDE remains dull, with dealers' prices easy as quoted: 60/62 per cent. solid, £11 15s.; broken, £12 15s. per ton, in drums, ex wharf.

COAL TAR PRODUCTS, ETC.—Pitch remains dull: pyridine and carbolic acid crystals are active on firm markets; pure methyl alcohol is very steady; other items are unchanged, with business quiet. **ANILINE OIL** remains dull at 7d. to 7½d. per lb., carriage paid, in loaned drums. **ANILINE SALT** from British makers' works is offered at 7½d. per lb., naked, at works. **BETANAPHTHOL** is very quiet at about 11½d. per lb., carriage paid. **TOLUOL** is steady, with business fair: pure, 1s. 10d. to 1s. 11d.; 90's, 1s. 6½d. to 1s. 7d. per gallon. **XYLOL** is still slack: pure, 3s. 3d.; commercial, 1s. 10d. to 2s. 3d. per gallon. **CREOSOTE OIL** holds steady with moderate business being done: ex works, 5½d., and f.o.b. 6½d. per gallon, in bulk packing. **CARBOLIC ACID** crystals have been busy again this week, and the market is fully maintained: f.o.b. in bulk quantities, 4½d. to 5d. per lb.; crude 60's, 1s. 2d. to 1s. 3d. per gallon. **CRESYLO ACID** has not been in much call, with prices unchanged at 1s. 7d. to 1s. 8d. per gallon, for 97 to 99 per cent. **NAPHTHALENE** remains very flat, and market is very irregular: flakes and crystals, £11 to £13 per ton, according to district. Pure

METHYL ALCOHOL is very steady as quoted in drums ex wharf at £47 per ton; supplies are limited. **PYRIDINE** continues very active, while supplies are difficult to locate. Prices here are fully up to 20s. per gallon. **PITCH** remains slack, with no important business moving: quoted at 39s. 6d. per ton f.o.b. East Coast.

Fixed Oils, etc.

Most items in this market have had a poor week of business, but there is no serious break in values to record. Palm oils are steadier after the recent decline. **ACID OILS** remain quiet and rather easy: coconut and palm kernel, 40s. 6d.; groundnut, 38s.; soya, 34s., spot. **CASTOR** is flat and £1 lower, with cheap re-sellers: pharmaceutical, 60s. 6d.; first pressings, 55s. 6d.; second pressings, 53s. 6d., spot, in barrels in not less than one-ton lots. **COCONUT** has been slow, but prices are maintained: deodorised, spot, 53s.; Ceylon, 45s. 9d., c.i.f.; Cochin, 59s. 9d., c.i.f. **COTTON** shows no improvement, and prices are unchanged: deodorised, 55s.; common edible, 53s.; soapmaking, 48s.; crude, 44s., spot. **GROUNDNUT** is dull but fairly steady: deodorised, spot, 57s. 6d.; crude Oriental, in bulk, c.i.f. 47s. **PALM KERNEL** is steadier, but still quiet: deodorised, 50s.; crude, 45s. 6d., spot. **PALM**.—There are slight variations in prices this week, but the market is much steadier; business moderate. Lagos, 41s. 3d.; softs, 41s.; medium, 40s.; hard, 41s.; bleached, 44s. 3d., spot. **RAPE** continues firm at full rates: refined, 55s.; crude, 52s., spot. **SOYA**.—Quiet and slightly easier: deodorised, spot, 49s. 6d.; crude, afloat, 44s. 6d. **LINSEED** (raw, naked).—Business has been slow all the week, and prices show some decline for all positions: on spot, 40s. 6d.; September, 39s. 6d.; September-December, 39s. 6d.; January-April, 39s. 4½d. Boiled oil, spot, 41s. 6d. Hull, on spot, 39s. 9d.; September-December, 39s. 9d.; January-April, 39s. 3d. **TURPENTINE**.—With American quotations on the up-grade ranging upward of 100 cents at Savannah, the tendency was harder, but prices have fluctuated a good deal either way, although fairly well maintained on balance. The further curtailment of the receipts in America has influenced sentiment. Last week's deliveries here were poor at 1,327 barrels, making the aggregate for the year 62,770 barrels, compared with 64,965 barrels same period last year. Including the landings and the quantities afloat, the London visible supply was returned at 34,856 barrels, against 38,318 barrels last year. Demand in this market has been more active, the expectation of higher prices eventually being an incentive for new buying. The premium on distant contracts represents about 3s. per cwt. The outlook as regards consumption in America is reported to be quite good. London, on spot, closes at 73s. per cwt.; September-December, 74s.; January-April, 76s. 3d. **WOOD**.—Hankow in barrels is cheaper on spot at 62s. 6d. per cwt. on a dull market.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Petroleum jellies are easier, and lubricating oils, except reds, are easy as quoted on a dull spot market. Other products are steady but rather quiet. **BENZOL** continues steady and business good: crude 65's, 1s. 3d.; standard motor, 1s. 8d.; pure, 2s. to 2s. 1d. per gallon, ex works, in tank wagons. **FUEL OIL** is unchanged, and market quiet: 950 gravity, £4 2s. 6d.; 890 gravity, £4 17s. 6d. per ton, ex tank. **PARAFFIN WAX** and **SCALE**.—Markets are quiet at last week's rates. **PARAFFIN OILS**.—Markets are unaltered at last week's prices. **WHITE OILS**.—Markets quiet and easy as quoted at last week's rates. **PETROLEUM JELLIES** are slightly easier and still quiet: white to snow white, £54 10s. to £59; amber and yellow, £21 to £24; red vet, £19 5s.; dark stiff green, about £16, barrels free, ex wharf, London. **SOLVENT NAPHTHAS** are steady, with business fair: 90 to 160, 1s. 4d. to 1s. 5d. per gallon; heavy, 90 to 190, 1s. 1d. per gallon. **LUBRICATING OILS**.—Red oils are steady, otherwise this market is rather weak and distinctly quiet on spot: pales, £11 7s. 6d. to £23 7s. 6d.; reds, £13 10s. to £23 10s.; dark cylinders, £13 10s. to £33; filtered cylinders, £21 5s. to £35 per ton, less 2½ per cent., ex wharf, London. **SOLUBLE OIL** and **CUTTING COMPOUNDS** and No. 1 **RUSSIAN OIL** are as last week.

Norwegian Cod Liver Oil Tax

By a Law dated July 17, 1925, an export tax is to be imposed on cod-liver oil exported from Norway. The tax will amount to 1½ kroner per barrel on steam-refined cod-liver oil and to ½ kroner per barrel on crude cod-liver oil and on bright oil. The yield of the tax will, after deduction of expenses of collection, be set apart to cover the expenses of joint advertisement abroad of Norwegian cod-liver oil, but some of the fund may be applied to continued scientific investigations in connection with medicinal oil. The Crown may authorise the temporary suspension or reduction of the tax. The law is to come into force from a date to be specified by the Crown, and holds good for three years.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

SCOTLAND

Dundee.—A report on the subject of testing dispensing has been submitted to the Panel Committee by the Medical Benefit Subcommittee, who replied that they objected to being asked to write "detective" prescriptions. The Pharmaceutical Committee, to whom a report was also made, replied to the effect that they had heard of no complaint regarding the pharmaceutical service, and had no reason to believe that the standard of Insurance dispensing in Dundee had in any way deteriorated. They would, however, willingly co-operate in the framing of any scheme.

Lanarkshire.—The Insurance Committee met on August 19, Mr. Stewart (chairman) reporting that during the first four months of the year there had been paid to chemists the sum of £2,243, being a decrease of £364 from the corresponding period of last year. Mr. T. McAuslan said the drug fund still caused anxiety. During 1925, in Scotland, the high expenditure experienced in the year 1924 had been continued. So far as Lanarkshire was concerned, the expenditure in the first four months of the year had not been so high, there being a decrease of £364, but the position nevertheless was still a cause of anxiety. A copy of the memorandum on prescribing, prepared by a joint committee consisting of representatives of the medical and pharmaceutical professions and the Scottish Association of Insurance Committees, had been sent to every practitioner in the Committee's area, the object being to bring before practitioners certain economies which might be effected by careful prescribing, which would not affect the treatment of the patient. The number of chemists on the panel is 170.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, September 8

The Chemist Analysts' Institute, Hall of the Royal Society of Arts, 18 John Street, Strand, London, W.C., at 8.30 p.m. Meeting open to all qualified chemists to discuss organisation.

Wednesday, September 9

Liverpool Chemists' and Southport Pharmacists' Associations.—Visit to Vinolia Works at Bebbington and the Port Sunlight Soapery and Village. Meet at Rock Ferry Station, Mersey Railway, at 2 p.m., for motor charabancs.

Thursday, September 10

London Chemists' Sports Club, Maw's Sports Ground, New Barnet. Tennis singles (ladies). On handicap terms (knock-out).

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Roll Films.—A detachable protective cover for roll films for the purpose of avoiding edge fog when the film spool is not in the camera, and during the actual loading and unloading operations. (Kodak, Ltd., and J. G. Capstaff. 222,855.)

Formamide.—A process for the manufacture of formamide, consisting in passing ammonium formate, or formic acid, together with free ammonia, over a dehydrating catalyst at 100°-200° C. (Badische Anilin & Soda Fabrik. 237,528.)

Matt Photographs.—A process for the production of matt and semi-matt photographs, consisting in using as the medium to be sensitised a layer of gelatin containing an addition of caoutchouc latex. (Rotopulsor A. G., and R. E. Liesegang. 223,940.)



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Store Prices and Others

SIR,—I was interested in your article upon "store" prices and "Xrayser II's" reply. The attitude of "I can get my price" is a common one, and supported by "Xrayser II's" experience; but is it a wise, or even a safe one? I do not understand whether "store" means a departmental shop or a branch of a multiple chemist, great or small; but the rapidity of growth of multiple shops in this country suggests that their policy is not altogether unsuccessful, and price has always been a part of their policy. Cheapness is not the only consideration; attractiveness, saleability, cleanliness and that much-abused word quality are even more important; but is there not a little nonsense talked in this trade about quality? Goods bought first-hand are cheaper than the same goods from subsequent hands, but I cannot find the quality improved. To the chemist who wishes to offer the public the best service, in price as in other things, I would suggest the policy of co-operative buying. His troubles would then vanish, to be replaced by others totally different. Handling, transport, storage, finance and the like would arise to torment him; but such problems are interesting, even fascinating. After all, with our talk of quality, are not many of us mere second-hand retailers, buying retail, to sell retail again? Co-operative buying is not so easy as it sounds—far from it—but with good will I am certain much could be done with it. The advantages of the individual shop are legion, and we have them. What we require is a share of the advantages of the other method of trading.

Yours faithfully,

DOUGLAS CARNALL.

143, Lambeth Walk, London, S.E.

Dispensing-Test Prosecutions

SIR,—The forcible letter of "Disgusted" (*C. & D.*, August 29, p. 335) says, in very terse language, what most of us think, yet few have the knack of putting into words. It has always struck me as rather unprofessional that a medical man should allow himself to be used as a tool for espionage; possibly the direction "the clerk shall arrange" covers the forwarding of a cheque for services rendered, but I cannot see a doctor doing a similar thing for an Insurance Committee, or any other body, to enable them to take steps against a brother-practitioner. The pharmacist seems to be one of those unfortunate people whose hand is against every man's, for every man's hand is against him.—Faithfully yours,

ETIQUETTE (29/8).

A Sartorial Matter

SIR,—Being one of the old school and with undiminished respect for traditions, I see with regret certain changes in shop routine—many, no doubt, inevitable. The younger portion of the staff appear, in many cases, to consider themselves entitled to the first consideration. Fifty years ago we got very little consideration, and were expected in a sense to be seen and not heard—until spoken to. However, times certainly change, and we can do very little to check the modern tendencies. Lately, during one of the hot spells, I was surprised—indeed, shocked—to see in the pharmacy I patronise the whole retail staff in shirt sleeves. Nothing, I think, so cheapens a business as this kind of thing. To adopt an Americanism, it made the place look like 30 cents. to the dollar. I had some trouble that morning in finding any other tradesman garbed in this way—grocer, butcher, barber alike in overalls. My tobacconist alone had his coat off. If the shirts, by the way, were all alike in colour, etc., the effect might be different, perhaps, but it would still be objectionable. And, after all, the end desired—coolness—is not achieved. The warmest garment we wear is, I think, the waistcoat; the proper wear for a hot, summer

day is a well-made and well-filled alpaca coat, and with this the waistcoat is discarded. For years past I have worn this sort of thing with great comfort to myself, and consideration for my customers. Shirt sleeves are, in my opinion, an affront.—Yours, etc.,

EMERITUS (20/8).

Dispensing Difficulties and Notes

Coloured Cocaine Solution

The pink colour noticed in "J. M. W. L.'s" cocaine and adrenalin solution (*C. & D.*, August 8, p. 234) is probably due to a trace of iron in the sodium chloride or in the water, or even to using an unpolished steel spatula, which may have acted on the adrenalin.—*S. H.* (10/8).

An Unavoidable Precipitate

SIR,—In the following mixture I rubbed down the powders and suspended the acetylsalicylic acid with mucilage; the customer returned it, saying that the mixture was perfectly clear when last dispensed. What is the correct way of dispensing this script?

Ac. acetylsalicyl. ...	...	...	3ij.
Caffein. cit. ...	...	...	gr. xlviii.
Phenazon. ...	...	...	3jss.
Syr. aurant. ...	...	...	3j.
Aq. ...	...	...	ad 3viij.

Yours truly,

A. N. C. (14/8).

[The mixture cannot be compounded correctly without a precipitate, there being excess of acetylsalicylic acid, which is insoluble in the liquids ordered. There is no necessity to employ a suspending agent if the powders are triturated together with the syrup, adding a little at a time, and then introducing the water in small portions while continuing to stir. In the resulting mixture the precipitate is light and in fine particles. When the mixture is shaken, the powder remains in suspension quite long enough to permit a dose to be poured out with equal distribution of the insoluble matter.]

Mixing Powders

SIR,—Would you kindly let me know what gives rise to trouble in the enclosed prescription? Immediately after mixing, the powder, on adding to water, falls easily to bottom of glass, and is quite miscible, but after a few hours, although kept in an air-tight bottle, a quantity floats on the water. As far as appearance is concerned, there is no chemical change, no matter how long it is kept.

Bism. carb. lev. ...	...	...	gr. ix.
Sod. benz. ...	...	...	gr. v.
Sod. bic. ...	...	...	gr. xxv.
Mag. carb. pond. ...	...	...	gr. xlv.
Calc. [carb.] præcip. ...	...	...	gr. xij.

Sig. 3j. ex aq. ter in die.

Yours faithfully,

PERPLEXED (22/8).

[The cause of the trouble described is electric action, which has probably been set up by the method of mixing. We suspect that you mixed the constituents together in a mortar. Try mixing lightly with a knife on a piece of smooth paper. Compounded in this way, the powder will remain for a long time without assuming an immiscible tendency. There is some useful and interesting information in this connection in "The Art of Dispensing," in the section devoted to powders.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Hairdressing as Side-Line

The writer contemplates opening a hairdressing salon as a department of his business as a chemist, and would much appreciate the views of any readers who have had experience in this connection as to its practicability. He would also be grateful for any hints which readers could give him.—*A. C.* (1/9).

Warning

A man is going round to chemists handing in a confinement order to the value of about £2 and presenting a cheque on Lloyds Bank, Torquay, for £5, saying he is short of change. If accepted, a loss of £3 is made on each cheque.—*Victim* (31/8).

Straw-hat Cleaner

E. J. (30/7), writing in regard to the formula for straw-hat cleaner (*C. & D.*, July 18, p. 114), gives the following practical hints: We have made a similar preparation for some time, and find: (1) It goes damp and wet. This is due mainly to water in borax. (2) We find it better to omit the borax: its action is, if anything, alkaline. (3) Use dried tartaric acid: even then the preparation will give off a lot of SO₂, and should be packed near open window.

Legal Queries

M. E. T. (12/8).—"Digestive Mixture" is not a dutiable title under the Medicine Stamp Acts.

E. V. C. (21/7).—An assistant is not entitled to holidays unless these are stipulated in his agreement, but it is a trade custom to allow a fortnight's holiday after a year's service.

G. E. M. (22/7).—The *C. & D. Diary*, 1925, contains full particulars of the registration of limited companies. If there are any points upon which you require further information we shall be glad to supply it.

A. D. H. (29/6).—We called attention in the *C. & D.*, May 16, p. 717, to the vagueness of the tobacco entry in the Poisons Schedule. It is intended to exclude smoking tobacco and probably chewing tobacco.

A. P. S. (20/8).—(1) It is not clear what is meant by "the trade." (2) The requirements of the Business Names Registration Act were given in our issue of February 14 (p. 250). See also *C. & D.*, March 14 (p. 401) and May 9 (p. 695).

Pilgrim (17/8).—Persons, firms or companies lawfully keeping open shop for retailing poisons are entitled to be in possession of "dangerous" drugs. The method of keeping records of purchases and supplies is set forth in *The Chemist and Druggist Diary*, 1925, (p. 244).

28/L (24/8).—A limited company can only carry on the business, and use the title, of chemists and druggists if the qualified superintendent is a member of the board of directors or other governing body, and if the requirements of Section 3 of the Poisons and Pharmacy Act, 1908, are duly carried out. (See *C. & D. Diary*, 1925, pp. 232-233.)

Lemonade (15/6).—There has been no legal ruling as to the composition of lemonade powders. What happened was that an analyst reported as adulterated lemonade powders and crystals not made exclusively from lemon products. So far as we are aware, all published formulas for lemonade powders require the use of tartaric acid for the reason that this acid, from grapes, is not so deliquescent as citric acid. We recommend as a precaution that makers should label the article in such a way as to indicate that tartaric acid has been used. "Made with pure tartaric acid from grapes" is a suitable statement.

R. C. (28/8), who is a partner in a firm, and also manager, receives a salary and a share of the profits, and occupies the house over the shop rent free. He asks if the annual value of the house is assessable for income-tax. [It is understood that what is asked is: Would such annual value be included in the income or profits of "R. C."? If, in fact, he is not at liberty to let or dispose of the house, its annual value is not regarded as part of his income, because he is allowed to occupy it in virtue of his position as manager. Income-tax, Schedule A, is, however, payable on the house, but the occupier is not liable for that. It is not easy to see how this question arises at all, as "R. C." being a partner, is assessable on his drawings, not on his salary as such.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Freeze (11/7).—FREEZING SALTS.—The white powder you send appears to be merely soda-ash (sodium carbonate containing some caustic soda). It loses 44 per cent. of its weight as water when ignited. The brown powder is crude ammonium nitrate. No other salts could be found. These are mixed in the proportion of four of the sodium carbonate and one of ammonium nitrate.

G. P. (11/7).—MOTH IN FUR.—The moth pupæ, which are present on the fur of the garment you send are best destroyed with benzene. A copious bath is required, and it would be better to entrust the fur with a dyer and cleaner who uses benzene freely.

T. J. A. (Cape Town) (12/7).—HAIR FIXING CREAM.—The variety containing oil, which requires to be shaken before use is made as follows:—

Powdered tragacanth	...	...	gr. xl.
Essence of parma violet	...	...	mt.
Rectified spirit	...	...	5liiss.
Glycerin	...	...	3ss.
Pure liquid paraffin	...	...	3ss.
Distilled water	...	...	to 3x.

Mix the essence and spirit and with them damp the tragacanth; then add the glycerin and water, shake and lastly add the liquid paraffin.

The amount of the last-mentioned ingredient can be increased if desired.

E. H. B. (14/7).—The sample was in two portions, one a red and the other a greyish-white sand. Each portion was found to consist chiefly of silica, along with small amounts of iron, calcium and aluminium, the red one being the richer in iron.

U. C. Y. & Co. (India) (15/7).—MODERN BOOKS ON PERFUMES, containing recipes for preparations made with synthetic chemicals, are W. A. Poucher's "Perfumes and Cosmetics" (Chapman & Hall, Ltd., 21s.) and J. P. Durville's "Preparation of Perfumes and Cosmetics," translated by E. J. Parry (Scott, Greenwood & Co., 21s.).

L. H. (Aleppo) (17/7).—(1) CORRESPONDENCE CLASSES for the pharmaceutical qualifying examinations are conducted by the Westminster College of Pharmacy (see Educational Number of THE CHEMIST AND DRUGGIST, August 15, p. 258). The same number contains full details of the requirements of the British examinations for the pharmaceutical qualifications. No British diplomas or degrees are granted *absentia*. (2) "Pharmaceutical Formulas" is the best recipe book of the class you require, but is at present out of print. A copy could be obtained by advertising in the C. & D. Coloured Supplement. (3) You will find waterglass for egg preservation regularly advertised in the C. & D. The packages contain full directions for use.

J. V. S. (18/7).—Aniline violet lightly dusted on money is used for detecting thefts. The powder, insufficient to be noticed, develops violet stains on the skin when the money is handled.

Puzzled (20/7).—PRESCRIPTION PRICING.—The following is the charge for the prescription you enclose on the C. & D. Pricing Method:—

Spt. chlorof.	...	...	d.
Tr. kramer.	...	...	7.0
Boroglyceridi.	...	...	8.0
Aq. coloniensis	...	...	6.0
Spt. vini rect.	...	...	ad 3j.
Container	...	...	21.0
Dispensing oncost	...	...	78.0
	...	...	2.0
	...	...	8.0

Charge 10s. 10d. 130.0

J. L. (20/7).—AVENA SATIVA is the botanical name for oats, and dec. avenæ in a prescription is meant for gruel. The alternative quantities of the ingredients of the prescription express the minimum and maximum amounts, which vary with the size of the dog to which the enema is to be administered.

J. D. (20/8).—PRESCRIPTION PRICING.—The following is the charge for the prescription according to the C. & D. Costing System:—

Liq. ammon fort.	...	...	...	3j.	d.
Tr. cantharidini	...	...	...	3j.	2.0
Spt. vini rect. (s. rehaté)	...	...	...	3iij.	10.0
Aq. destil.	...	...	...	ad 3viij.	21.0
Container	...	...	...	...	2.0
Oncost	...	...	...	...	2.0
	...	...	...	...	8.0

Charge 3s. 9d. 45.0

E. G. (21/7).—USING HENNA.—The following is the method of using henna:—About 7 oz. of henna powder is required for one application. This is divided into two portions. With portion No. 1 an aqueous infusion is made, using one pint of boiling water. This infusion is used while still hot, and is applied with a brush. With portion No. 2 make a moderately thick paste with water. Apply to the hair, and hold in position with a towel wrapped round the hair. Allow to remain thirty minutes. Then rinse the hair in tepid water. A re-colouring is necessary within about thirty days. We are unable to advise as to what additions are needed for modifying the colour obtained with henna.

S. V. O. (21/7).—BOTTLE TAX.—The Government of the Irish Free State placed a tax on all bottles imported into the Free State. (See C. & D., April 25, p. 599, and May 16, p. 700.)

J. H. J. (21/7).—Indentures for apprentices in pharmacy are not yet compulsory, but they will be for those apprentices registering with the Pharmaceutical Society after July 1, 1926.

A. H. T. (Natal) (22/7).—OXYGEN BATH SALTS.—The oxygen liberating ingredient mixed with sodium carbonate to form an oxygen bath salt is calcium peroxide, magnesium peroxide, or sodium perborate. About 2 per cent. of sodium perborate is the amount to employ. Particulars of Wright's process, which is intended to be definitely medicinal, were given in the C. & D., April 19, 1924, p. 584.

T. S. Co. (22/7).—(1) POISON ANTIDOTES.—A table of antidotes to poisons was given in the C. & D. Diary 1923, p. 589. (2) The article in the C. & D., August 22, p. 288, on denaturants for toilet article, should be consulted.

E. O'G. (22/7).—QUICK-DRYING VARNISH.—We cannot identify the class of quick-drying varnish to which you refer. It is possibly a dilution of a Brunswick black varnish, this being brown when further diluted with turpentine. If benzene were used as a diluent the drying would be facilitated.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," September 15, 1875

Pharmaceutical Society of Ireland

The first meeting of the Council of the Irish Pharmaceutical Society was held in the library of the College of Physicians, Dublin, on Friday, September 10. Sir Dominic Corrigan, President, and Dr. Aquilla Smith, Vice-President. Several reporters presented themselves, but admission was refused. This is to be regretted, as we believe the Council is composed of such elements as would be sure to furnish material for lively reports. The business transacted at the first meeting was, we believe, mostly of a preliminary character, though certain indications were given of a desire on the part of the apothecaries to grant only one title, namely, the highest, that of pharmaceutical chemist. The "druggist" section will probably go for a lower grade, as well as in England, but the fact that this would correspond with English practice will be rather against than in favour of the prospect of its introduction in Ireland. All depends, however, on the attitude of the physicians, who in all disputes in the Council between "chemists and druggists" and "apothecaries" will hold the balance of power. The meeting was adjourned until September 22, when the Council will sit from day to day until the bye-laws are framed and agreed to. A curious coincidence between the English and Irish Pharmaceutical Societies occurs in the fact that the name of William Allen is the first on the roll of both, in the one case Mr. Allen, of Dublin, one of the members of Council, being referred to, in the other the senior partner in the firm of Allen & Hanburys.



[Commenced C. & D., July 5, 1924]

Copal is the name given to several fossil and recent resins, the most important source of our supplies being the Belgian Congo. The recent resin of copal is said to be produced by *Trachylobium Hornemannianum*, Hayne, a leguminous tree, the recent resin of which is called *chakazi*, or (as it is known to English sailors), as jackass tree gum, and the harder or fossil resin, which is known as sandarussi, or in European commerce as animi, the best pieces of which are often sold as amber. Madagascar copal is said to be the produce of *Trachylobium verrucosum*, Oliver. West African copal is obtained from Sierra Leone (N.), Accra, Benin, Gaboon, Loango, Congo, Angola and Benguela (S.). West African copal is attributed to *Guibourtia copallifera*, Benth. Those of Gaboon and Loango go chiefly to France, those of Angola, Benguela, and the Congo go principally to Europe and North America. The pebble copal of Sierra Leone is the hardest of all the West African copals. Copals are chiefly valued for their hardness in the manufacture of varnishes. The hardest copals are those of which the hardness lies between that of crystallised copper sulphate and of rocksalt. Those of the Congo and Zanzibar come under the first. The hardness of the copals of Sierra Leone, Gaboon and Angola resembles that of rocksalt. The softest of all is the Demarara copal, which will not scratch talc, which all the other copals will do. This copal is derived from *Hymenaea Courbaril*, Linn. Kauri gum is sometimes called Australian copal, and East Indian damar is known also as Manila copal, but these are the product of coniferous trees, not those of *Leguminosae*, like the true copals. (See also Damar and Kauri.) Copal varnishes are usually made after fusion of the resin, adding linseed oil and turpentine. Copals as a rule are not soluble in methylated alcohol, although some are on the addition of camphor, some hydrocarbon, or acetone. Cajuput oil is said to be a good solvent, and possibly eucalyptus oil may be, but more recent solvents now in use are the secrets of the varnish manufacturers. (See Spon's Encyclopædia, ii, 1643, 2024.) Copal varies greatly in character and value, the hard or fossil-kinds being much more valuable than those of recent living trees. Pontianac (Dutch Indies) is the hardest kind, and is superior to Macassar copal from Singapore. Pontianac copal is used only for the highest-class varnishes. Java copal is superior to the Borneo sorts, and is intermediate between Angola and Benguela copal in hardness. Resin is obtained from living trees by cutting out pieces of bark 2 in. or 3 in. square at intervals of about 9 in. on the trunk and larger branches. The resin exuded from the cuts is afterwards collected. Generally speaking, the better kinds of African copal are derived from the Congo, Angola and Benguela, medium sorts from Sierra Leone and Accra, the Niger copal being generally of low grade. "Manila" copal is the produce of *Dammara orientalis*, and is so called owing to its shipment from that port (not because it is produced there). Many varieties are known, varying from hard fossil resin to soft resin from living trees. Those in Sierra Leone have been over-tapped in the past and so many killed that the export has been prohibited by ordinance since 1920, and no exports are now recorded. The following figures show the imports into Great Britain from 1920 to 1923:—

From	1920	1921	1922	1923
Netherlands	Cwt. 9,933	Cwt. 9,545	Cwt. 12,086	Cwt. 9,738
Java	14,095	4,544	5,160	6,563
Other Dutch Possessions in the Indian Seas	23,857	18,863	13,142	30,727
Belgium	62,560	61,570	67,116	61,316
Belgian Congo (incl. Belgian Ruanda and Belgian Urundi)	13,629	2,992	11,880	25,752
Philippines and Guam	6,809	2,563	393	4,407
Other foreign countries	8,812	6,872	7,098	8,290
Total from Foreign Countries Value	£ 139,695	£ 106,949	£ 136,875	£ 146,793
Nigeria (incl. Brit. Cameroons) Straits Settlements and Dependencies (incl. Labuan)	1,248	—	—	—
Other British Possessions	21,344	7,654	25,416	26,504
Other British Possessions	5,145	1,448	1,879	2,051
Total from British Possess. Value	£ 27,737	£ 9,102	£ 27,295	£ 28,555
Total	£ 167,432	£ 116,051	£ 164,170	£ 175,348
Value	£ 676,334	£ 313,366	£ 317,046	£ 377,188

In 1924 Kenya Colony exported 230 cwt. of copal, valued at £1,105, and Sierra Leone 30 tons, valued at £4,382. Exports from Tanganyika in 1924 totalled 3,133 cwt., valued at £14,571. It will be seen from the above table that the largest imports into Great Britain arrive from the Congo via Belgium. In Mincing Lane this special gum is noted for its hardness, and is responsible for a very special varnish. It is graded only in very limited quantities, and is chiefly exported in the form of "sorts," the picking and washing being done by London dealers to a great extent. It is generally packed in bags of one cwt., except the better grades, which arrive in cases of 1½ cwt. Auctions of varnish gums are held at regular intervals in London.

Co-partnership.—This term connotes the principle of sharing the profit arising in an industry among those who are personally engaged in producing the means whereby it is earned. Profit sharing relates largely to the industrial side, and had its origin in the desire of employers to give the workers some interest in the industry beyond mere wages. The impulse of development in co-partnership came largely from the co-operative movement, and the stimulus of the Victorian economists, like John Stuart Mill. It is now established in most civilised countries in a variety of forms or modifications. With "copartnership" as a title the words "and profit-sharing" are usually associated. The two propositions cannot wholly be divorced, though so far as chemists' retail businesses are concerned it is better to do so. (See Wage Systems.) Copartnership is a form of co-operation used in industry to enable the producer to obtain some share in the results accruing from his production. The system appears to work well in some industries in France, where the workers have become almost owners of several large concerns. The method in this country varies somewhat, but the main principle is to reward the workers for long service by enabling them to become shareholders. It is usually done by the issue of share certificates on a basis set forth by the directorate. The "Report on Profit Sharing and Labour Copartnership" points out that the method is to invest the whole or part of the bonus shares in order to secure that employees shall possess a direct financial stake in the capital of the business. Whatever method is adopted, this is the primary object of copartnership. This form of sharing has been carried on with particular success in many gas companies. According to the Labour Copartnership Association manifesto, "the worker should receive, in addition to the standard wages of the trade, some share in the final profit of the business or the economy of production," and "the worker should accumulate his share of the profit, or part thereof, in the capital of the business employing him, thus gaining the ordinary rights and responsibilities of a shareholder." One of the outstanding cases is that of Lever Brothers, Ltd., where in a trust deed there was laid down the creation of "Partnership certificates," which has now assumed great proportions. There are many variations, the method being by no means standardised, and owing to this absence of uniformity some failures are chronicled. Great industrial concerns offer the best field; and once the feeling is overcome that

The C.&D. Commercial Compendium

the only objective is speeding up production, the system promises to make greater advances:

Copies of Prescriptions.—See Prescriptions.

Copper (Cu., atomic weight, 63) was the first metal used by man, being found native; and its malleability and electrical inductivity make it an indispensable component of modern civilisation (including warfare). Copper smelting is an important industry in this country, in the United States and on the Continent, the metal being obtained from ores containing copper sulphide. Pure electrolytic copper is made on an enormous scale in the United States, and is one of the purest metals of commerce. Copper, which melts at $1,084^{\circ}\text{C}$., can be hammered into sheets or drawn into wire, which malleable and ductile properties it confers on many of its alloys. Steam pans and vacuum pans are made of copper owing to its heat-conducting capacity; but the chief outlet for copper is in electrical engineering, owing to its combination of good conductance, resistance to oxidation in air, ease of working, and comparative cheapness.

Copper Alloys.—The following are the more important alloys containing copper:—

Bell metal: Copper, 78 per cent.; tin, 22 per cent.

Brass: Copper, 55 to 72 per cent.; zinc, 45 to 23 per cent.

Bronze: Copper, 75 to 90 per cent.; tin, 25 to 10 per cent.

Aluminium-bronze: Copper, 90 per cent.; aluminium, 10 per cent.

German silver: Copper, 60 per cent.; zinc, 20 per cent.; nickel, 20 per cent.

Gun metal: Copper, 91 per cent.; tin, 9 per cent.

Speculum metal: Copper 66.6 per cent.; tin, 33.3 per cent.

Copperas, kinds of.—Blue copperas is copper sulphate, green copperas is iron sulphate, and white copperas consists of zinc sulphate. In view of a recent legal decision (*C. & D.*, I, 1923, p. 690), care should be taken not to describe as "Commercial blue copperas" or "commercial blue vitriol" mixtures (in any proportions) of copper sulphate and ferrous sulphate.

Copper Ferrocyanide is not a scheduled poison.

Copper Salts other than sulphate are of little industrial importance with the exception of certain pigments, including verdigris (copper subacetate of variable composition), Scheele's green (cupric arsenite, CuHASO_3), and emerald green or Paris green (which is a mixture of arsenate and arsenite of copper). Scheele's green and Paris green are no longer used as colours (for wallpaper, etc.), owing to danger of formation of arseniuretted hydrogen, but they are valuable insecticides. Copper chloride (cuprous chloride, CuCl) finds a use in gas analysis as an absorbent (in hydrochloric acid solution) of carbon monoxide and (in ammonia) of acetylene. Copper nitrate occasionally replaces copper sulphate in prescriptions for lotions. Cupri oleas (ung. cupri oleas) is a ringworm ointment.

Copper Sulphate is the most important copper salt, both commercially and pharmaceutically. Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$) is also known as blue vitriol or blue copper. It enters into Bordeaux mixture, used as an insecticidal spray in viticulture and horticulture. In agriculture wheat is steeped in copper sulphate solution to protect against "smut," and the sulphate is used also to exterminate charlock and other cruciferous weeds. Agricultural copper sulphate should not be contaminated with iron salts. (See Copperas.) Copper sulphate is used in medicine, externally, in the form of lotions or as caustic paints. It is astringent or emetic, and is rarely administered internally (though the British Pharmacopoeia gives its "dose" and its "emetic dose"), owing to its poisonous and corrosive effect on mucous surfaces. An important use of copper sulphate in analysis is in the preparation of Fehling solutions, Benedict's solution, etc., for testing for reducing sugars in urine.

Copper Sulphate, Commerce of.—There are no official returns actually available of the production of copper sulphate, either in this country or abroad, but from the various approximate estimates given in one direction or another, the total world production may be placed at between 220,000 and 230,000 tons per annum. The

British industry was badly crippled through the war, owing to the fact that export prohibition or restrictions compelled those important consuming countries (especially Italy and France) to develop their own output at least in order to see to their industrial needs. Italy's pre-war production, which amounted to about 45,000 tons per annum, has since more than doubled, being now estimated at roughly 100,000 tons, while French and Spanish makers sufficiently increased their operations to accentuate the inevitable handicap to British export business. About one-half of the total Italian output of 98 to 99 per cent. quality sulphate is produced by one concern alone. Germany as well as the United States are producing sulphate, and the increase in the world production compared with the pre-war years is at least 25,000 tons. The home production, which was by far the greatest before the war at 90,000 to 95,000 tons, after falling off very seriously, recovered to some extent within more recent years, being now between 50,000 and 55,000 tons, while possibly well over this is being made in France. What has happened to wrest the lead from Great Britain and to keep down the margin of profit to makers is clearly indicated by the returns of export (tons) as given below:—

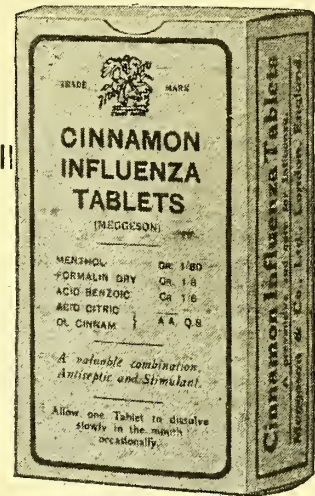
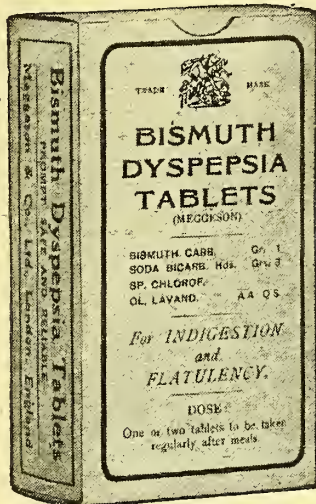
U.K. Exports	Chief Foreign Customers					
	Total	France	Italy	Spain	Portugal	Greece
1913 ..	75,633	21,767	27,128	4,965	4,449	2,627
1921 ..	27,997	10,263	537	517	2,757	5,337
1922 ..	41,763	17,630	2,582	2,523	1,674	5,844
1923 ..	40,247	18,890	3,744	120	2,693	4,026
1924 ..	40,005	(no details are yet available)				

The United Kingdom exports before the war fluctuated up to as much as 90,000 tons in exceptionally active seasons, so that British manufacturers have lost about one-half of their foreign customers' takings since. Their efforts to recover more of the lost ground resulted in the formation of the British Sulphate Makers' Association, created towards last autumn with the object of more economic working and centralising sales. Under normal conditions the price of sulphate represents about two-thirds of the value of metallic copper, which ratio was fairly well held until November 1915, when the proportion suddenly increased to about 50 per cent., owing to the change in economic conditions. The export season usually starts in the closing months of the year, and the bulk of the export outlet, chiefly in connection with the spraying of the vineyards, is being secured before midsummer, when viticulture needs become completed. As indicated by the returns given, France is still a heavy customer, in spite of her considerably increased production, while a large part of the sulphate she imports or manufactures herself finds its way to Algeria, an important consuming centre. The official statistics for the year 1924 published by foreign countries show that Germany imported 500 kilos (1923, 4,600 kilos), and exported 6,481 tons (1923, 5,013 tons), of which 467 tons were exported to Great Britain, 283 tons to British India, and 506 tons to Canada. France imported 21,875 tons (1923, 20,834 tons), of which 18,382 tons (1923, 18,162 tons) from Great Britain, and exported 8,415 tons (1923, 11,848 tons). Italy imported 4,987 tons (1923, 3,764 tons), of which 4,151 tons from Great Britain, and exported 2,869 tons (1923, 2,868 tons).

Copra is the name for dried coconut kernels, the source of the coconut oil used in margarine and soap manufacture.

Coquilho Nuts (vegetable ivory), the seeds of *Attalia funifera*, or the piassava palm. The seeds grow in a cluster at the base of the palm, are about the size of a turkey's egg and contain a large kernel, which produces a fine lubricating oil. The seed itself is generally used for making beads, buttons and other small articles. The Brazilian Government levies an export duty of 8 per cent. on this product. During 1908 429 tons was exported.

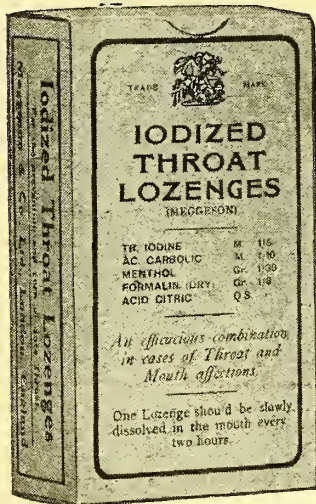
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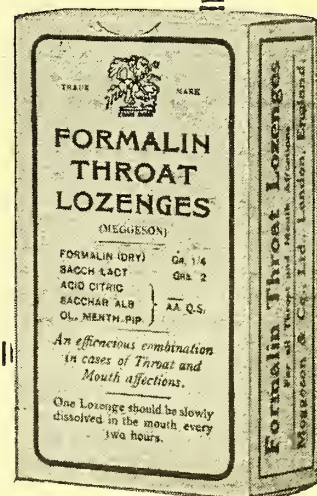
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TARTRATE of POTASH

BICARBONATE
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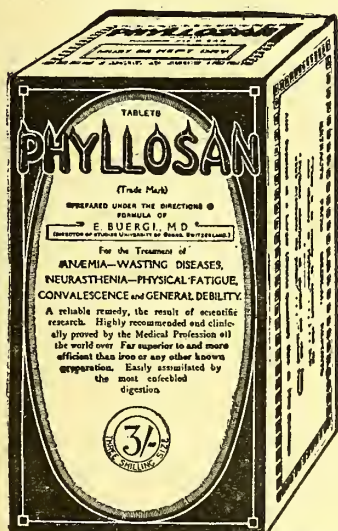
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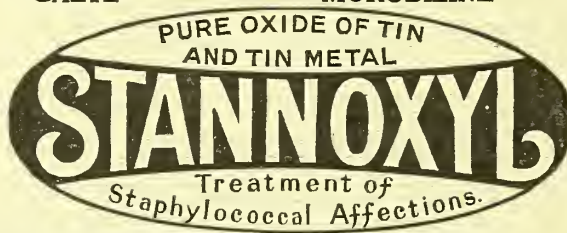
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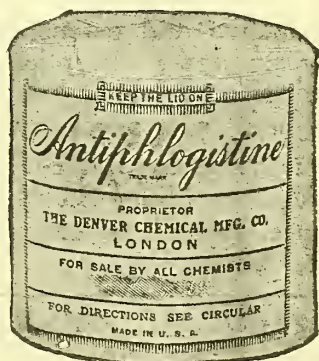


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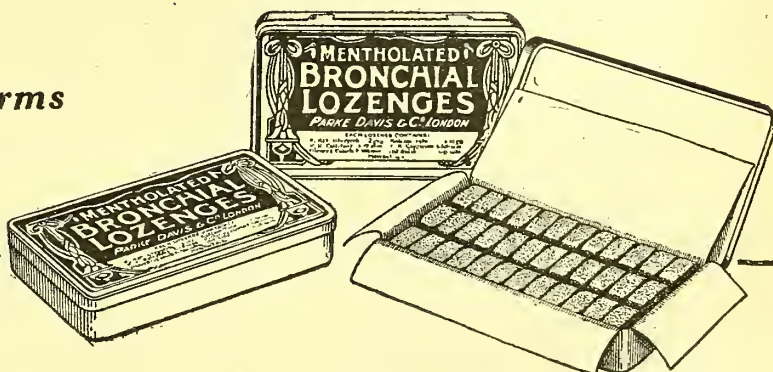
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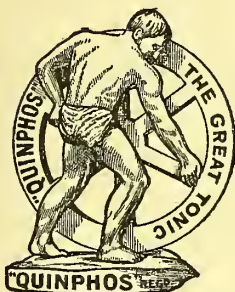
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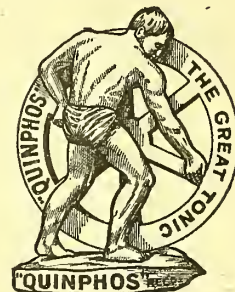
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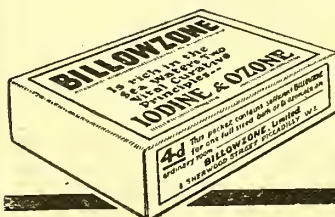
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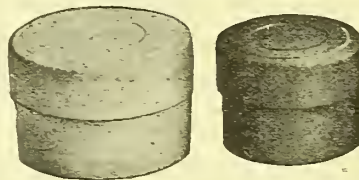
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42 CANNON ST.
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SEPTEMBER 5, 1925.

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3.—MIDLANDS (HEALTH RESORT).—High-class Retail and Dispensing, returning £2,250 under management; plenty of scope; beautifully fitted shop, in fine position; low rent; price, £300 and valuation, in all about £1,600.

4.—SOUTH COAST.—Good-class Drug Store; present returns £15 weekly; plenty of scope in qualified hands; no near opposition; rent, £1 week clear; stock and fixtures worth £500; price, £675; worth attention.

5.—HOME COUNTY.—Good-class Retail and Photographic; in large town; returns, £1,550; net profit, £450; splendid house and garden; large, well-fitted shop, fully stocked; price, £1,450.

6.—CO. DURHAM.—Light Cash Retail, in centre of large agricultural district; returns, over £1,000; plenty of scope; low rent; good house; stock and fixtures worth £650; price, £750.

7.—SHEFFIELD (NEAR).—Light Middle-class Cash Retail, in good position; returns, £1,800; net profit, £400; books audited; good house and shop; price, including property, £1,750; £800 can remain.

8.—LONDON, S.E.—Brisk Cash Drug Stores, in main road position; returns, £1,700; net profit, £600; opening for N.H.I.; large shop, well fitted and stocked; price, £1,250; personally recommended.

9.—NORTH LONDON.—Very profitable Light Cash Retail, in main road position; returns last year, £1,620; net profit, £566; good house, low rent, fully stocked; price, valuation plus £250 goodwill; personally recommended.

STOCKTAKING VALUATIONS.

We are now booking dates for September and October, and invite early correspondence. Terms on application.

ESTABLISHED 1870.

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Valuer, Transfer Agent & Expert Stocktaker

135 Queen St., Newton Heath, Manchester

Urgently required, Sound Concerns. Genuine cash buyers waiting, £400 to £4,000.

Intending Vendors, now or later, get in touch with me. (Tel. Failsforth 113)

BUSINESSES TRANSFERRED

on a specially equitable system. Send me details of yours if in market. Enquiries for businesses solicited. Advice on Advertising, Income Tax, Business Building, etc.

A. BERNARD SLACK, 15 Christ Church Avenue,
West Didsbury, MANCHESTER.

TENDERS.

PARISH OF HAMMERSMITH.

OUTDOOR DISPENSARY.

TENDERS are invited for the supply of

- (a) Drugs,
- (b) Druggists' Sundries,

to the Outdoor Dispensary, Cathnor Road, Shepherd's Bush, W.12, for six months commencing 1st October, 1925.

Forms of Tender, which must be returned by 10 a.m. on Tuesday, the 29th September, 1925, can be obtained on personal application, or by sending a stamped, addressed foolscap envelope to the Clerk to the Guardians, 206 Goldhawk Road, Shepherd's Bush, London, W.12.

ERNEST J. GEORGE

*Chemists' Valuer, Transfer Agent,
Accountant and Income Tax Expert.*

UNSOLICITED TESTIMONY.

STOCK-TAKING.

"I duly received certificate and thank you for the careful way in which stock has been taken and the departments separated; it is satisfactory as showing variation during the four years you have taken stock."

BUSINESS TRANSFERS.

Vendor and Purchaser satisfied.

"I should like to take this opportunity of thanking you *very* much for the expeditious, orderly and quick way you tackled and got through a difficult task. You have given *BOTH OF US* entire satisfaction and we appreciated the happy few days we spent together."

ACCOUNTS.

"I wish to thank you for the very conscientious way you have prepared my accounts. I see at a glance the importance of keeping proper records, quite apart from tax purposes. You must please consider me now one of your regular clients and a very grateful one as well."

INCOME-TAX ADJUSTMENTS.

"I note gratifying result of your interview with Inspector of Taxes. I cannot sufficiently express my appreciation of your courtesy, skill, and fairness to everyone. I am sorry I did not get you sooner to straighten out matters for me."

YOU CAN RELY UPON SIMILAR EFFICIENT SERVICE.

IF YOU WISH TO BUY OR SELL A
BUSINESS SEND PARTICULARS IN
FULLEST CONFIDENCE.

ERNEST J. GEORGE

OFFERS RELIABLE BUSINESSES.

London, S.W. Turnover approx. £2,500. 14 year lease. Price £300 and valuation.

London, W. Small business, now under management, good scope for active man. 21 year lease, nominal rent. £750 inclusive.

Brighton. Returns over £1,000 and capable of big increase. £650 inclusive.

Herefordshire. Small country business with good prospects. £750 inclusive.

Succession. Opportunity occurs for smart responsible man with capital or ability to save, to succeed proprietor upon retirement. Able to exercise patience and perseverance. Suggested salary £4 to £5 weekly.

3 ST. PAUL'S CLOSE, WALSALL

Tel. 774 & 1000.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BLACKPOOL.—Unique opportunity occurs to acquire a really genuine up-to-date Chemist's Business, doing good profitable turnover, offering unlimited scope for increase; splendid stand, well fitted and stocked; price £3,750, about, includes valuable freehold property (vendor's own); excellent living accommodation; stock, etc., can be reduced to suit purchaser. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester. (Telephone: Failsworth 113.)

BRIGHTON.—Drug Store; lock-up; central; rent, £52 per annum inclusive; lease, 13 years; turnover, £15 per week, increasing; no near opposition; great scope for qualified; good Prescribing and Photographic; Vendor retiring; price, £675, or nearest offer, includes stock, fixtures and fittings, £500; lease, £175. 65/9, Office of this Paper.

LANCASHIRE (large manufacturing town).—Wholesale Drug, Drysaltery and Packed Goods Specialities (established 1891); good sound connection, with scope for considerable increase; reason for selling, old age; low rent; returns average nearly £5,000 per annum; price £1,500, or cash £1,200 and balance to remain, or nearest offer for quick sale. Apply T. Read, 5 Alexandra Road, Blackburn.

LONDON, N.W.—Beautifully-fitted corner Pharmacy; average returns for 3 years, £4,500; net profits, £1,000, under management; lock-up shop; new lease at very low rent; negligible rates; cash, £2,650. 65/30, Office of this Paper.

LONDON, S.W.—Old-established Business, good-class neighbourhood; low rental; held on lease; good scope for N.H.I. and Photography; good house accommodation, garden, and side entrance. 66/20, Office of this Paper.

READING.—Genuine Retail Cash Business for Sale; main road; populous neighbourhood; takings £23 weekly, lowest; easily trebled by qualified man; exceptional opportunity for N.H.I., Photography, etc.; needs little stocking; shop temporary lock-up until occupier can vacate house; price £500 cash; no offers. "Chemicus," 62/3, Office of this Paper.

SOUTH WALES.—Unopposed Mixed Industrial and Agricultural Business; Wine Licence, Kodak Agency, Optics; district rapidly developing; good living and warehouse accommodation; double-fronted shop; modern fittings; electric light throughout; property can be bought or leased; selling owing to ill-health. Further particulars from 66/17, Office of this Paper.

STOKE-ON-TRENT (Near).—Drug Store, with Wine Licence, in residential town; Pharmacist could add N.H.I., Optics, Photographic; no near opposition (2 miles); has done £40 weekly under indifferent management; could be doubled by energetic proprietor; rent, £30; long lease could be arranged; price, £800. 65/26, Office of this Paper.

A LOCK-UP Drug Store for Sale in East London suburb; nearly one year established; takings average £12 per week; rent, inclusive, 16s. 6d.; for ready cash all at £300; only wants seeing. For particulars reply 66/8, Office of this Paper.

DRUG Store for immediate disposal; long lease; well fitted; central position; splendid scope for N.H.I. and Photography; average trade £1,500 per annum under poor management; real chance for live man; must be sold at once; stock and fixtures worth price, £500 all at, or near offer. Call Edwards & Flanders, 277 Bank Chambers, 329 High Holborn.

FOR Sale, Surgical Business in large city, North of England, doing high-class business; principal thoroughfare; rent low; lease can be arranged; offers invited; continued ill-health of family reason for disposal. 45/17, Office of this Paper.

GENUINE and well-established Chemist's Business for Disposal; South Coast; rent, £100 per annum; price, £2,000, for stock, fixtures and lease. Apply W. Burrough Hill, Auctioneer, 7 Hanover Buildings, Southampton.

LOCK-UP Shop, clean industrial town 12 miles from Cardiff; best position; splendid fittings; large cellar; good stock; Dispensing, N.H.I., Photographic, Agricultural, Optical; well-established cash business; unique opportunity for energetic man; sound reasons for selling; goodwill, fixtures, stock inclusive £1,200, or near offer; lease offered. "J. R.," Oakleigh, Treharris, Glam.

MARKET TOWN (Northern County).—Recently-established Cash Business; returns already over £1,000 per annum, increasing; double-fronted shop; well fitted and stocked; good house at moderate rental; considerable scope for man with knowledge of Agricultural trade. 66/19, Office of this Paper.

OLD-ESTABLISHED South Kensington high-class Dispensing Business; Kodak Agency; 14 years' lease; returns £2,250 to £2,500; lock-up shop; lease £350; stock and fittings at valuation, about £1,000. 66/37, Office of this Paper.

THIS WEEK'S BARGAIN: Suit a Welshman (S. Wales), Drug Store, Limited; legally entitled to Panel, but not, owing to ill-health, undertaken this work; took £1,153 first-year under young lady; fitted mahogany; must sell; £750 all at; eight local doctors, only one chemist; low rental; lease. Wire or write. Anticipated Panel £700 per annum; small house attached. First 5 per cent. deposit secures. Slack, Agent, 15 Christ Church Avenue, West Didsbury.

£2,700.—Business for Sale; West of England town; tram stop at the door; main road; living accommodation. 65/20, Office of this Paper.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

LEEDS.—Pharmacist desires sound established Business (Drug Stores not objected to), with returns not less than £30 weekly; must bear investigation; cash waiting. 62/25, Office of this Paper.

TOWN or Country Business required in Surrey, Sussex, Hampshire or Kent; turnover about £1,500; long lease, moderate rent; vendors to produce books and offer every investigation; cash available; living accommodation preferred, but not essential; neglected businesses or businesses with larger turnover considered if part-payment terms entertained. 64/30, Office of this Paper.

WANTED at earliest, small decent class non-poisonous Cash Drug Store; West of England preferred; neglected entertained if really scope for increase; advertiser wishes only for a mutually straight deal; no agents; kindly state full particulars in first letter; strictly confidential; small capital available. "Confidential," 66/31, Office of this Paper.

WANTED, lock-up Cash Drug Store, Light Retail, in bracing seaside resort, where there is scope for Photographic trade; must be good-class business. State net profit, price, rent, lease, etc., in strict confidence, to 62/39, Office of this Paper.

PREMISES FOR DISPOSAL.

A BIG BUSINESS AWAITS THE FOLLOWING TRADERS:

BUTCHER,
GROCER,
CHEMIST,
BAKER AND CONFECTIONER,
GREENGROCER,
FURNITURE DEALER,

AT PREMIER PARADE, EDGWARE,
immediately adjoining the NEW TUBE STATION.

Already the following famous firms are represented on this Parade:—

J. Sainsbury, Ltd.
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W. H. Smith & Son, Ltd.
Manor Farm Dairies.
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FREEHOLD SHOPS, ARCHITECT AND CONTRACT BUILT, in imposing Georgian style with stone enrichments, having upper parts with separate entrances for which tenants can readily be secured at £150 per annum. Freehold. Moderate price will be accepted, and if desired terms of payment arranged. One shop without upper part might be let to substantial trader.

THREE ONLY STILL AVAILABLE.

one adjoining W. H. Smith & Son and one Mac Fisheries.
The finest trading proposition since Golders Green, or will double in value as an investment.

Write direct to the building owner, and avoid agents' commission, Mr. G. Cross, Hotel Vanderbilt, 76/86 Cromwell Road, S.W.7.

AGENCIES.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

AGENT wanted for Sale of new Chemical Pharmaceutical Preparation against a disease heretofore incurable. Offers under No. 5216 to Annoncenbureau, Löpfe, St. Gallen, Switzerland.

CHEMIST requires additional Agencies for Scotland; resident; own car; calling on Chemists, Stores and Hairdressing and Toilet Establishments; commission and part expenses; would consider Sole Agency or whole-time Representative for reputable firm. Particulars in full first letter to Douglas, 175 Balsuney Road, Kirkcaldy, Fifeshire.

CHEMIST, with two branches in Irish Free State, large premises, open to accept Agencies for quick selling lines; will travel if necessary. 70/331, Office of this Paper.

MANUFACTURERS' Agents for U.K. required for well-known Toilet Preparation. Write, stating districts covered and other lines carried, to "X. Y. Z.," 70/344, Office of this Paper.

NEW ZEALAND.—Chemist, leaving shortly for New Zealand, would undertake Agencies or introduce new lines; expert knowledge of Colonial trade. 65/39, Office of this Paper.

REPRESENTATIVE, age 40, travelling by car through the Eastern and Southern Counties, and having a personal connection of many years, is open to accept a first-class Agency on a commission basis; no travelling expenses are asked for, but any business proposed must be sound and reputable. 63/1 Office of this Paper.

REPRESENTATIVE, with connection in Northumberland and Durham, seeks additional lines in Chemists' Specialities or Advertised Proprietaries; office and warehouse accommodation; could undertake Sole Distribution and Agency for Northern Counties. 59/80, Office of this Paper.

FOR SALE.

ABOUT 5 lb. Floral and Heavy Oils, Chlorophyll, etc., in 1 oz. to 8 oz. quantities; Optical Case, full set and stock; 5-grain Pill Machine; stamped envelope particulars; reasonable offer for part or whole. 56/35, Office of this Paper.

YOUNG'S Filling Machine for Sale, suitable for health salts and other similar fillings; weighs from a fraction of an ounce up to 1 lb. Apply 69/310, Office of this Paper.

SITUATIONS OPEN.

RETAIL.

[HOME.]

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—Young lady Assistant, unqualified, with all-round experience, for good-class business. Atkinson, Chemist, Six Ways, Birmingham.

BIRMINGHAM Suburb.—Qualified Branch Manager wanted for good-class Retail, with Photographic; good opening for first-class man; house attached. Please give full particulars of experience, height, age and salary, etc. 58/2, Office of this Paper.

BOLTON.—Wanted, young qualified Assistant; must be good Salesman and energetic. Apply, stating age, salary required, references, and when at liberty, in first instance to 327/9, Halliwell Road.

BRIGHTON.—Junior Assistant at once for good-class Light Retail, knowledge of Photographic apparatus and window display an advantage. Full particulars in first letter, to Stead, Duke Street, Brighton.

CAMBRIDGE.—Junior Assistant wanted for Light Retail and Dispensing; outdoors; must be able to develop and print. Full particulars and salary required to R. Deck, 30 Regent Street, Cambridge.

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.
CITY HOSPITAL FOR INFECTIOUS DISEASES,
WALKER GATE.

DISPENSER (female) required for duty at Hospital and City Tuberculosis Dispensary; to live out; salary £110-£125 per annum, with dinner and tea provided at the Hospital. Applications, with copies of three recent testimonials, to be forwarded to the Medical Officer of Health, Town Hall, Newcastle-upon-Tyne.

DURHAM.—Junior or Improver, mixed, colliery business; Counter, Photographic, Wireless; must be good Window-dresser. References, full particulars, and salary required, Rowland Hill, M.P.S., Chemist, Spennymoor.

EASTBOURNE.—Unqualified Junior Assistant; single; must have experienced Dispenser, and accustomed to good-class business; opportunity to study for Part I at recognised local school. Apply, stating when disengaged, age, height, and salary required (outdoors), to Andrews, Chemist, Eastbourne.

FARNHAM, SURREY.—Junior required for Counter and Dispensing in good-class Family and Dispensing business (outdoors). Apply, stating usual particulars and salary required, to Trimming & Co., Ltd., Alton, Hants.

HAMPSTEAD.—Wanted, qualified Junior Assistant of good address; experienced Dispenser, and accustomed to high-class business. Apply, by letter only, with full particulars and salary, Grant, 567 Finchley Road, N.W.3.

LIVERPOOL.—Qualified lady or gentleman, Light Retail Cover, hours 9-5, Wednesday and Saturday 1; further time if desired for classes, etc.; suit Major or Post Graduate Student. Please give particulars and salary required by letter. Baker, 144 Selborne Street, Liverpool.

LIVERPOOL.—Junior wanted; outdoors; good Dispensing experience; state salary. Hopwoods, Ltd., 345 Scotland Road, Liverpool.

LIVERPOOL.—Wanted, at once, for the Liverpool Hospital for Consumption, Pharmacist-Dispenser to live out; duties light; hours approximately from 9 a.m. to 5 p.m., Saturdays to 1.30 p.m.; no Sunday or Bank Holiday duty; mid-day meal provided. Address, with references and stating salary required, to Secretary, Liverpool Hospital for Consumption, Mount Pleasant, Liverpool.

LIVERPOOL.—Qualified, accustomed to N.H.I. State salary and experience. Apply "Sulphur," 71/347, Office of this Paper.

LONDON, N.W.—Unqualified Assistant wanted, about middle of October, principally for Counter, but must also be a good Stock-keeper and Window-dresser, and able to relieve at Dispensing Counter when necessary; age about 24. Reply, stating full particulars and terms to 65/34, Office of this Paper.

LONDON, S.E. (near Camberwell Green).—Assistant, male, unqualified, under 30, required about September-30, for brisk cash business. Please state age, height, details of experience and salary required. 65/6, Office of this Paper.

LONDON, S.E.—Chemist-Optician as Manager required for general Retail and Photographic business. Apply, with full particulars, and stating salary expected, to A. Goldthorpe, Chemist, 113 Plumstead High Street, S.E.18.

LONDON, S.E.—Junior Assistant wanted at once; outdoors; unqualified, well up in dispensing and counter. Apply by letter, stating age, height, salary required, and when disengaged, to Rumsey & Son, 535 Lordship Lane, S.E.22.

LONDON, S.W.11.—Wanted, immediately, active Junior for quick Retail and Dispensing; preference given to gentleman with knowledge of Photographics and Window-dressing. State age, height, experience, and salary required (outdoor), Banbury & Co., 186 Lavender Hill.

LONDON, S.W. SUBURB.—Wanted, Junior Assistant for Dispensing, Stock and Booking; time allowed to attend classes. State experience, salary, and usual particulars. "Novex," 65/38, Office of this Paper.

LONDON, W.—Junior Assistant required; one accustomed to Dispensing and Photographic. Full particulars and salary required to Bruce's, Ltd., 28 Broadway, Ealing, W.5.

LONDON, W.1.—Wanted, a Junior Assistant (male) for high-class Dispensing business; no photography. Please give full details of previous experience, quote references, also age, height, and salary (outdoors) to 59/25, Office of this Paper.

MANCHESTER.—Locum required, qualified, from September 17 until September 28. "M.P.S.," 4 Grange Terrace, Wilmslow Road, Rusholme, Manchester.

MANCHESTER.—Unqualified Dispenser required in a high-class City business; must have had good Dispensing experience. State full particulars, age, and salary expected. 64/4, Office of this Paper.

MANCHESTER.—Lady Assistant (unqualified) required for high-class Pharmacy in City; experience in Toilets and Perfumes a necessity; permanency. Full details and photo (if possible) to 70/345, Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

NORTH, within 15 miles London.—Assistant required in good-class Pharmacy; not necessarily qualified, but must be reliable. Applicants must submit references, with age, previous experience and salary required (outdoors) to "Pharmacist," 66/35, Office of this Paper.

SOUTH COAST.—Gentlemanly Assistant, with good references, required for good-class Dispensing and Light Retail business; about 22; please state age, height, and salary required, and give particulars of experience, enclosing photo; no Sunday duty, except in emergency; post offers excellent dispensing experience. 65/2, Office of this Paper.

SOUTHSEA.—Gentlemanly Assistant, about 25, for brisk middle-class Pharmacy from 14th prox. or earlier; Counter, Dispensing and Window Display; knowledge of Photography essential; fullest particulars in first letter, with photo (returned). Fry, 137 Albert Road, Southsea.

STOCKPORT.—Wanted, young unqualified Assistant, male, single; one just out of apprenticeship preferred; outdoors; medium working-class district. State age, height, experience, salary required, references, photo if possible. "M.P.S.," 85 Wellington Road North, Stockport, Cheshire.

SUSSEX.—Wanted, immediately, lady Assistant, Minor or Hall qualification; permanent position; easy work; Dispensing, Counter, etc. Write, stating full particulars, salary required (enclosing photo, which will be returned), to 62/32, Office of this Paper.

TORQUAY.—Cocks & Dunsford, Pharmacists, Castle Circus, require either a Junior Assistant or Improver. Apply, with full particulars, to T. W. Dunsford, Castle Circus.

WEST-END.—Wanted, Junior Assistant or Improver; unqualified (outdoors). Write, stating age, experience, salary required, or call before 12 o'clock, Curtis & Co., Ltd., 79 Baker Street, W.1.

A JUNIOR Assistant required by the end of September. Apply, stating age, salary, experience, etc.; knowledge of Welsh preferred. W. Miall Jones, Pharmaceutical Chemist, 33 Terrace Road, Aberystwyth.

A SMART Assistant required for high-class Pharmacy on South Coast; permanency. Reply, giving age, experience and salary required; photo if possible. 64/14, Office of this Paper.

A VACANCY will shortly occur in a large London Pharmacy for a lady Dispenser (Hall); Counter experience preferred, but not essential. Applicants please give full particulars, age, experience, salary required, etc. 64/11, Office of this Paper.

A SSISTANT, young, M.P.S. and F.S.M.C. or F.B.O.A., to open Optical Department in old-established Pharmacy and Photographic business in excellent position in one of the leading towns on South Coast. Fullest particulars (strictly confidential) to "Anastigmat," 66/15, Office of this Paper.

A SSISTANT wanted, Dispensing, Counter, etc., experienced, for South Wales industrial town; state full particulars, age, height, salary, etc. Henderson, Chemist, Llanelli.

A SSISTANT wanted (for September 28, about); Dispensing, Agriculture, Photography. Age, height, experience and salary required to Gwillim, Chemist, Brecon.

A SSISTANT, reliable and energetic, for good-class Dispensing business; accommodation eventually if married. Apply, with particulars of experience, age, reference, and salary, to Hinton, Lake & Son, Fore Street, Sidmouth, Devon.

BRANCH Manager required (near London); must be good Salesman, Window-dresser, and have Photographic experience; living accommodation if required. Application unanswered in eight days respectfully declined. Give full particulars, salary, experience, etc., to 66/28, Office of this Paper.

CAPABLE, energetic Assistant (male) required for good Middle-class Business (no N.H.I.); must be good Salesman, Window-dresser and have some knowledge of Vet. trading. Full particulars, age, height, experience, salary, etc., to "Lysol," 66/5, Office of this Paper.

CHEMISTS.—Qualified male or female, young, required for branch shop; must have all-round experience; copy of testimonials and photo if possible, in stamped envelope; state age, height, salary required; Southsea. 66/11, Office of this Paper.

COMPETENT unqualified Assistant required. Applicants please give usual particulars and enclose photograph. Gower, Chemist, Tonbridge.

COMPETENT Assistant for early October; must be good Window-dresser and Dispenser; good references and experience necessary. Applicants should state age, experience, height, references, and salary required in first letter, and photo if possible. Densem & Co., 47 High Street, Exeter.

DISPENSER.—Experienced young lady required. Call before 10.30, Selfridge's Staff Office, Oxford Street.

EXPERIENCED unqualified Assistant, about 35, for good-class Family Retail, Dispensing and Photo. business; no extra duties and no N.H.I.; must be well up all branches, Counter, Dispensing, Display and practical Photography; £4 4s. weekly (outdoors); permanency for the right man who will take an interest in his work. Frederick Postlethwaite, Hoddesdon, Herts.

HAYWARDS have vacancy for Assistant at 6 and 8 Bridge Street, Walsall.

JUNIOR Assistant wanted; one accustomed to good-class Retail and Dispensing business. Please give full particulars of age, height, experience, salary required (outdoors). F. M. Rimmington & Son, Ltd., 9 Bridge Street, Bradford.

JUNIOR Assistant, male, by middle of September. State age, salary required (outdoor), and references to C. Boiting, Chemist, 65 Sidwell Street, Exeter. Letters not answered in a week declined.

JUNIOR Assistant by 14th inst. for a middle-class business in North London; one who has recently completed his apprenticeship and is used to light Counter work and N.H.I. Particulars by letter, age, height and salary, etc. Grant, Chemist, 331 West Green Road, N.15.

JUNIOR wanted immediately for good Dispensing business. Davy, High Street, Rotherham.

JUNIOR in good-class Light Retail and Dispensing business. State age, height, experience, and salary required (indoors). G. T. Kingston, 33 Gay Street, Bath.

JUNIOR Assistant wanted for about six weeks; well up in Dispensing, Counter work, and Window-dressing. Please state age and salary required. D. Lewis, 94 Lower Marsh, S.E.1.

JUNIOR Assistant required for usual Light Retail and Dispensing business; permanent and progressive position. State salary required and when at liberty. 64/6, Office of this Paper.

JUNIOR or Improver wanted immediately; knowledge of Photography; good Window-dresser. State salary to S. Heath, Chemist, 394 Holderness Road, Hull.

LADY Assistant required, October 5, for good-class Dispensing business; must be capable Dispenser and have had Retail experience. Give full particulars of experience, age, salary required (outdoors) to Gilling, Chemist, Sunningdale, Ascot.

LADY Assistant first week in October; must be capable and accurate Dispenser, with good experience at the counter. Please give full particulars in first instance of experience and qualification, together with salary required. "Chemist," 19 Market Street, Leigh, Lancs.

LADY, Minor qualification, required for Dispensing and General Retail; easy and comfortable position in Stoke-on-Trent district; give full particulars as to salary required, age, and experience; photo if possible. 65/4, Office of this Paper.

LADY Assistant required, Yorkshire, accustomed to high-class Dispensing Pharmacy; able to take charge. References, experience, salary required to 61/21, Office of this Paper.

LADY Dispenser-Book-keeper, experienced, wanted by Doctor in general practice. Apply, with full particulars, terms, etc., P.C.B. 12/7, Office of this Paper.

MANAGEMENT, with excellent house accommodation; good prospects; only men possessing undoubted business ability need apply; London, N.W.; interview essential. 65/31, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., have vacancies for unqualified Assistants. Write, giving full particulars of experience, etc., to Secretary, Timothy White Co., Ltd., Portsmouth.

QUALIFIED gentleman required for light business at Clapham Junction, S.W. Apply, giving full particulars of experience, with salary required, to "H. E. M.," 3 Millbrook Place, London, N.W.1.

QUALIFIED Assistant Dispenser, Minor qualification, required immediately. Apply, with fullest particulars, age, height, salary, etc., to The Prosser Roberts Co., Pharmaceutical Chemists, 85/87, Lambeth Walk, S.E.

QUALIFIED Assistant, immediately; good Counterman; knowledge of Photography; must be thoroughly reliable; good references; full particulars, salary, etc., outdoors; photo. D. George, Ph. Chemist, Pentre, Glam.

QUALIFIED Lady or Gentleman required, not later than September 21. Rendell & Roberts, Ltd., 523 King's Road, Chelsea, S.W.10.

QUALIFIED Assistant at once; experienced Dispensing and Counter; permanency. All particulars first instance to S. Edwards & Son, Chemists, Godalming.

QUALIFIED Assistant for South Devon business; permanency; must be good Salesman; outdoors; no N.H.I. Dispensing; state salary, which must be moderate; commission given to suitable man. Please send photo and particulars to "Alpha," 66/25, Office of this Paper.

QUALIFIED Managers for two branches: (1) country village where knowledge of Agricultural business is essential, house provided; (2) town business, lock-up shop, general retail. Apply, with fullest particulars, to Cooper & Hilton, 21 High Street, Bognor.

REQUIRED, qualified Managing Assistant for old-established business in Devon, with Photographic and some Agricultural; applicants must be married, aged 30-35, of strict integrity, possess initiative, and all-round experience; house provided, with garden; short hours. Interview will be required, expenses paid. State full particulars as to salary, references, etc., enclose photo if possible, to "Devon," c/o Wright, Layman & Umney, Southwark, S.E.1.

REQUIRED, Manager, qualified, for modern business; good Window-dresser, with Photographic experience; only men with first-class references need apply. Send full particulars to 71/348, Office of this Paper.

SEPTEMBER 14.—Qualified man wanted; excellent opportunity for young man who is anxious to get on. Apply with full particulars to Wm. Fox & Sons, Ltd., 109, 111, 113 Bethnal Green Road, London, E.2. Ten minutes from Liverpool Street.

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COMPETENT unqualified Assistant; Photographic, Dispensing; good Salesman; 40; at liberty 14th. Lee, 131 Greenford Avenue, Hanwell, W.7.

DISPENSER, Book-keeper, to Doctor; lady, experienced, qualified, desires post, or as Assistant in Pharmacy; Locum or permanent. 66/7, Office of this Paper.

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HY. ALLISON, M.P.S., 93 High Street, Lincoln, recommends his Senior Apprentice as Junior Assistant; disengaged September 20. "Assistant," c/o Hy. Allison.

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QUALIFIED Manager; 26; reliable and experienced; excellent references; all branches; Scot; London or country; disengaged shortly. 65/7, Office of this Paper.

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